12th STD – Computer Applications - Practicals

01
EXERCISE

Question

Page Formatting using PageMaker

1. Open PageMaker 7.0 and create a new document layout which includes the following setup options:

   ● Page size – A4.

   ● Number of Pages – 4.

   ● Margins1.25 inches - top, and .75 inches – all other sides.

2. Type the following text:

   HAPPINESS

   Happiness is often confused with fun, good living, and riches. Sometimes fun is equated with happiness. Fun is what we experience while doing an activity, whereas happiness is a residual and long-lasting feeling. The path to happiness is long and full of challenges. Happiness requires life-long pursuit.

3. Set the heading 'HAPPINESS' in 18 points, Arial font, bold and alignment centre.

4. Format the paragraph as follows:

   (a) Font   –   Arial

   (b) Font size   –   12

   (c) Alignment   –   Justified

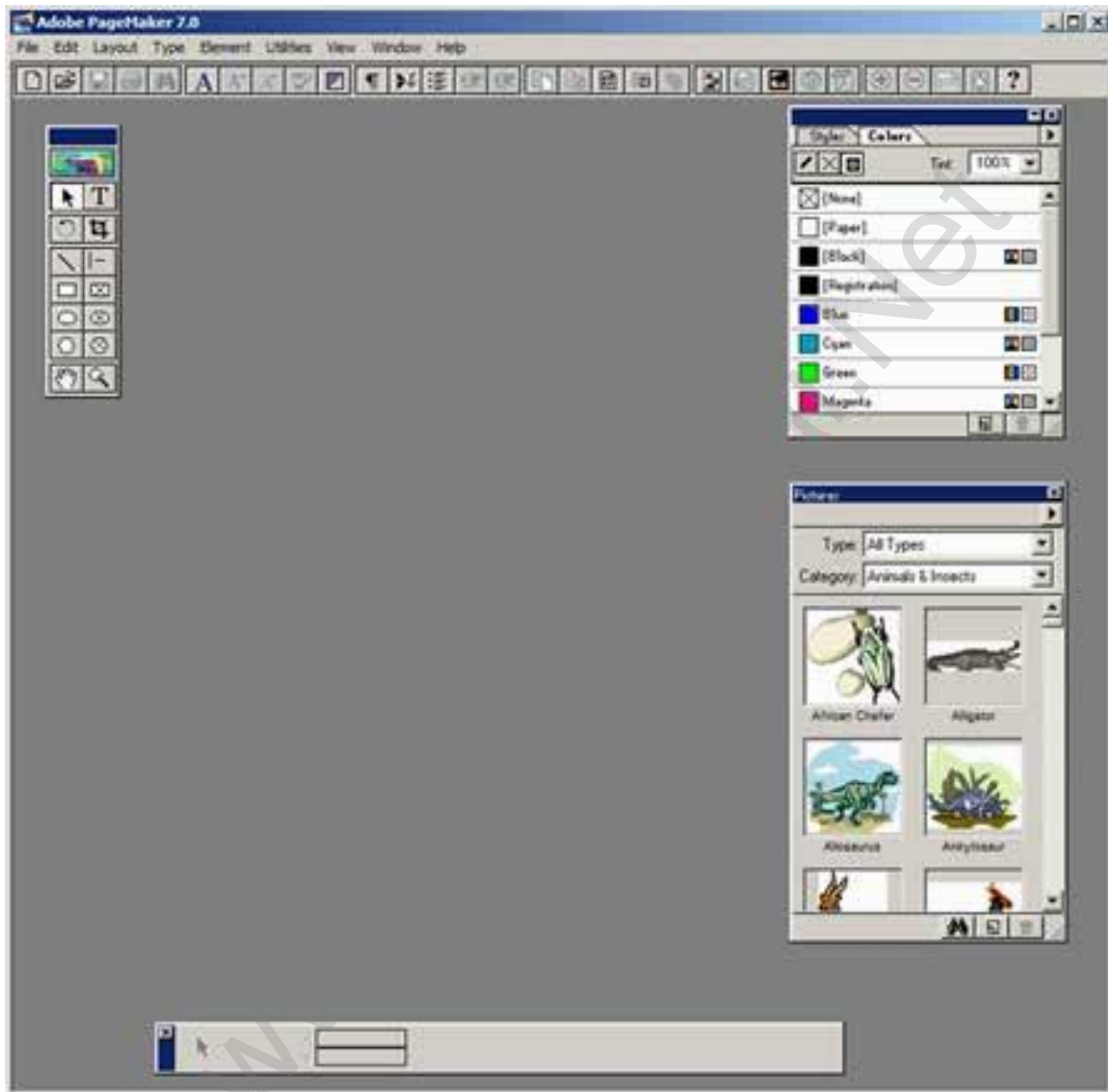   (d) Leading   –   20

5. Save the document tas 'happiness'.

AIM

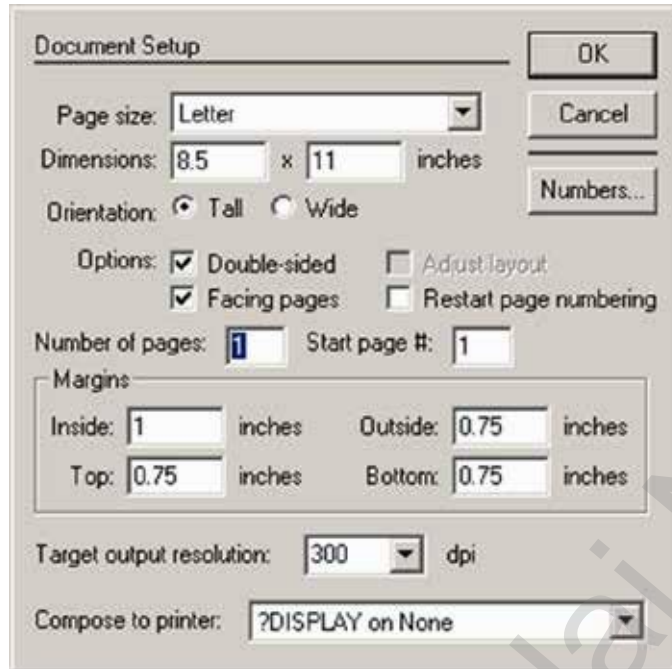**To create a new document using the default given options.**

Procedure

1. Star the PageMaker using the following commands.

Start→All Programs→Adobe→PageMaker 7.0→AdobePageMaker 7.0.The Adobe PageMaker window will be opened as shown in Figure.
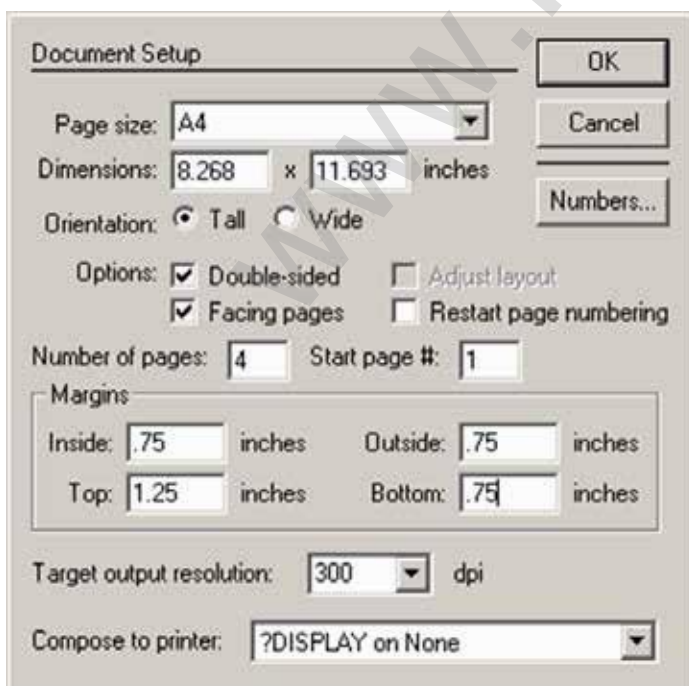
2. Choose File → New in the menu bar. (or) Press Ctrl + N in the keyboard.

   This opens the Document Setup dialog box.

● Click the Page Size drop down list box and select A4 size.

● In the Number of pages text box, type 4.

● Set the values in the Margins sections as follows :

 | | | |
   |---|---|---|
   | Inside | – | – 0.75 inches |
   | Outside | – | 0.75 inches |
   | Top | – | 1.25 inches |
   | Bottom | – | 0.75 inches |

Note

To change Measuring Units from Inches to Millimeters

• Choose File > Preferences > general (or) Press Ctrl + K. Now Preferences dialogue box appears.

• Change the unit of Measurements and Vertical ruler to Millimeters.

3. Click on OK. Now a new document called Untitled–1 will appear on the screen as shown in Figure.
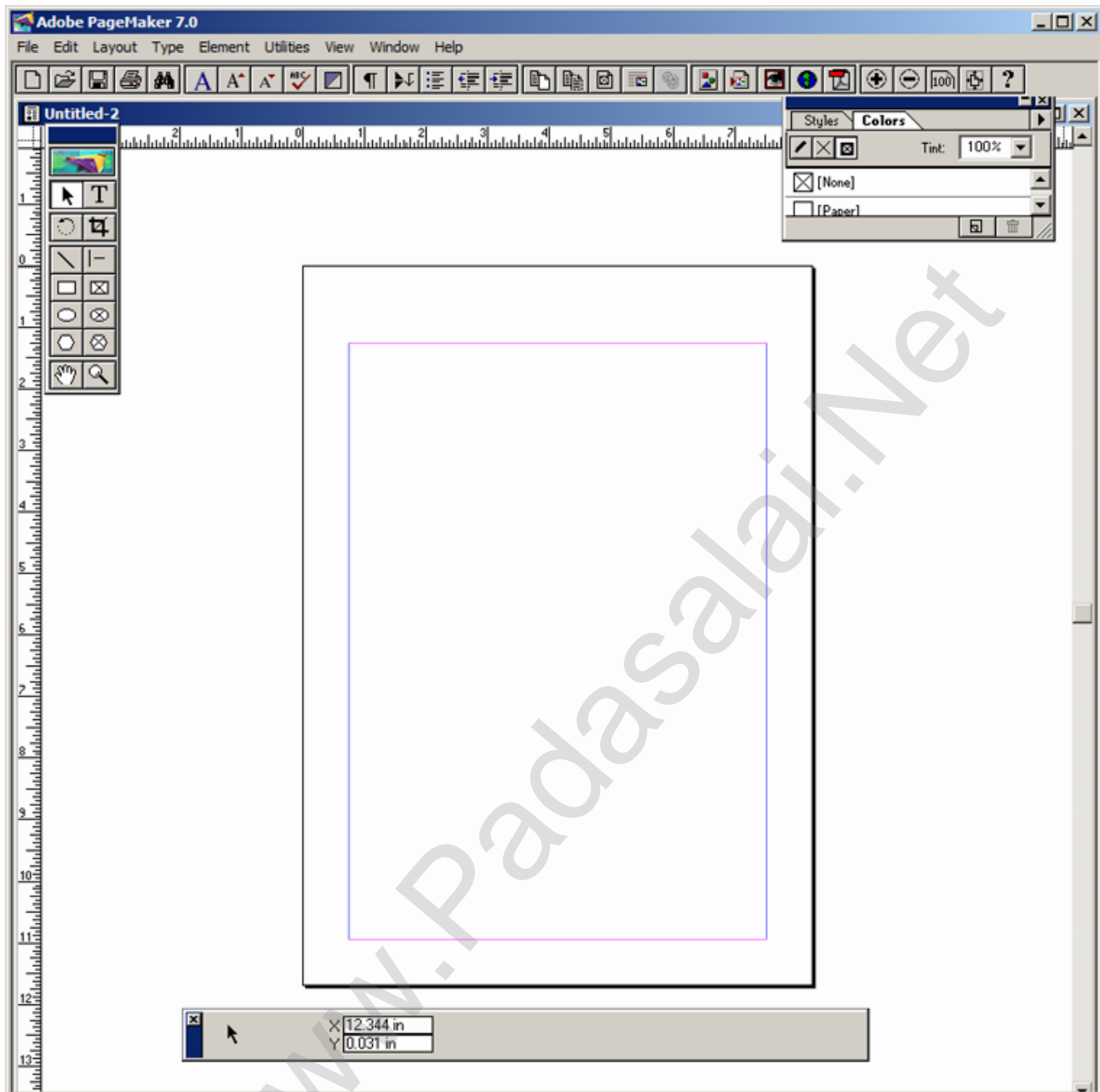

4. Click on the Text tool and create a text block. Then type the following text in the text block.
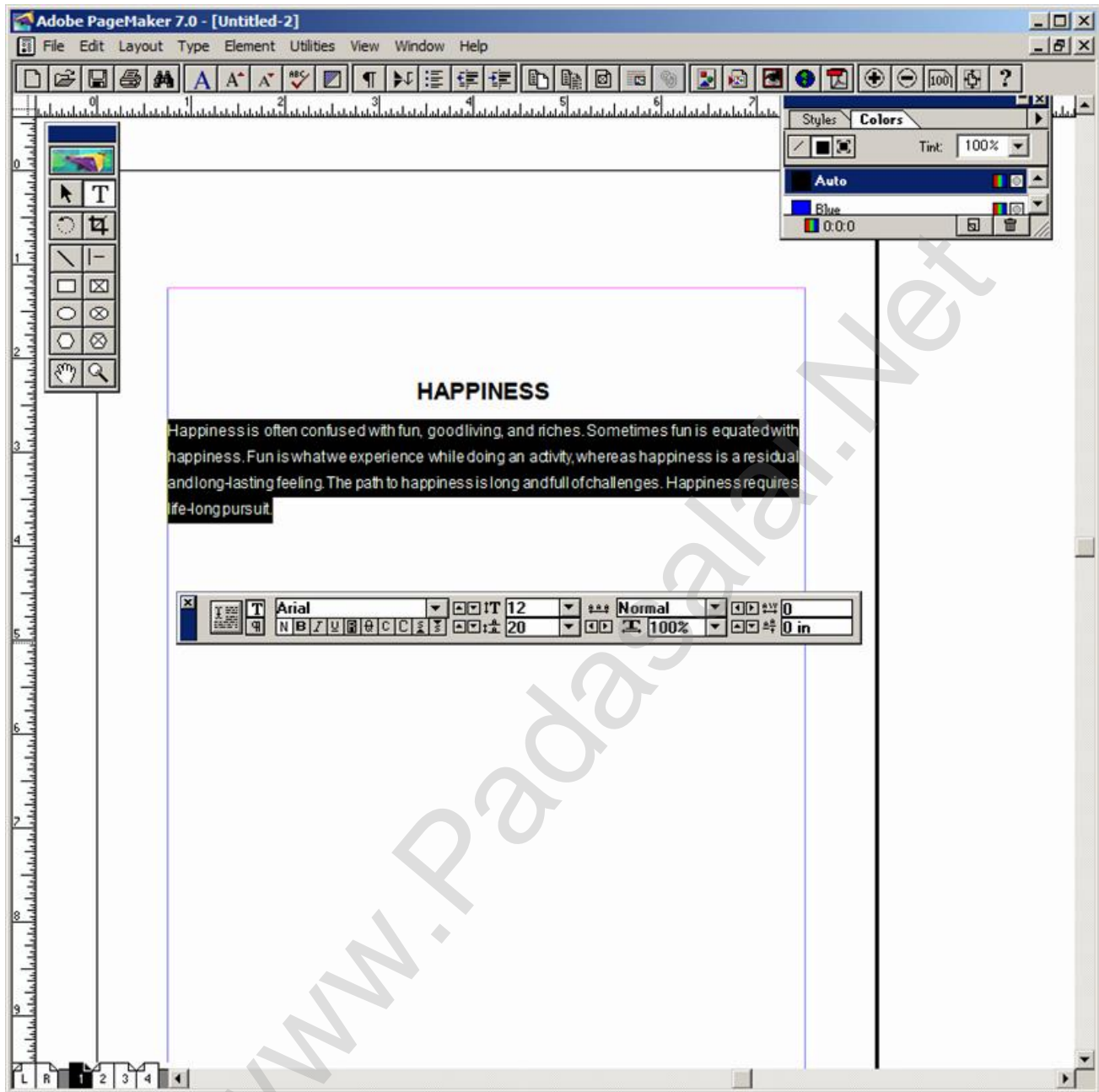
    HAPPINESS

Happiness is often confused with fun, good living, and riches. Sometimes fun is equated with happiness. Fun is what we experience while doing an activity, whereas happiness is a residual and long-lasting feeling.The path to happiness is long and full of challenges. Happiness requires life-long pursuit.

5. Select the word '**HAPPINESS'** with Text tool. Using **Character Control Palette**, change the font to Arial, font size to 18, and Leading 22. Then click on **Bold** button. Then press **Shift** + **Ctrl** + **C** for centre alignment.
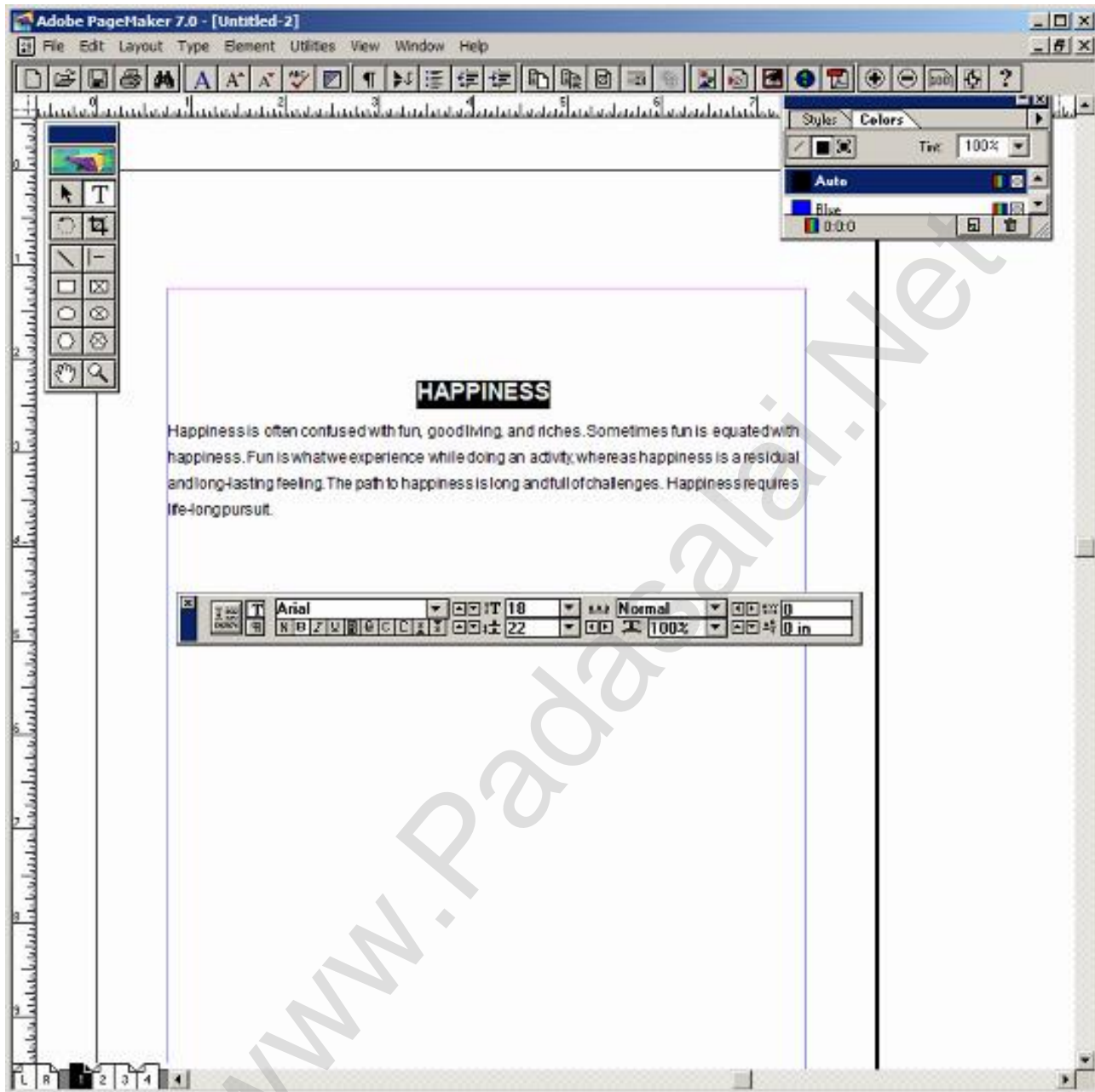
6. Select the paragraph with Text tool. Using **Character Control Palette**, change the font to Arial, font size to 12, and Leading 20. Then press **Shift** + **Ctrl** + **J** for Justify.

7. To save the document as 'happiness'

(a) Press Ctrl + S (or) Choose File → Save in the menu bar. Save publication dialogue box appears. Type 'happiness' in the File name text box and press Save button.
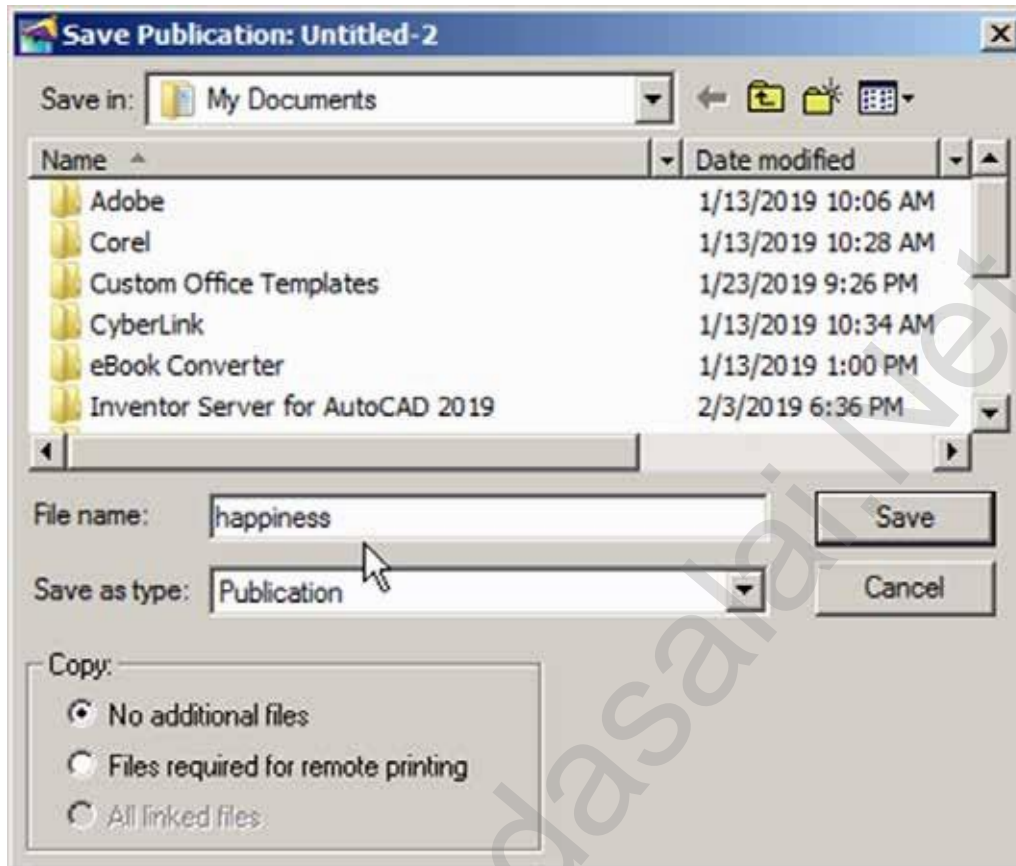
Output

HAPPINESS

Happiness is often confused with fun, good living, and riches. Sometimes fun is equated with happiness. Fun is what we experience while doing an activity, whereas happiness is a residual and long-lasting feeling. The path to happiness is long and full of challenges. Happiness requires life-long pursuit.
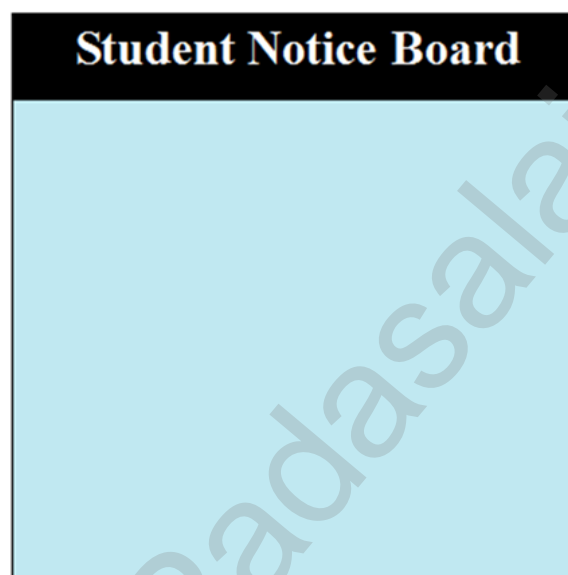
Conclusion

The expected output is achieved.

02
EXERCISE

Creating Notice Board using PageMaker

Question

Create a Student Notice Board using PageMaker.
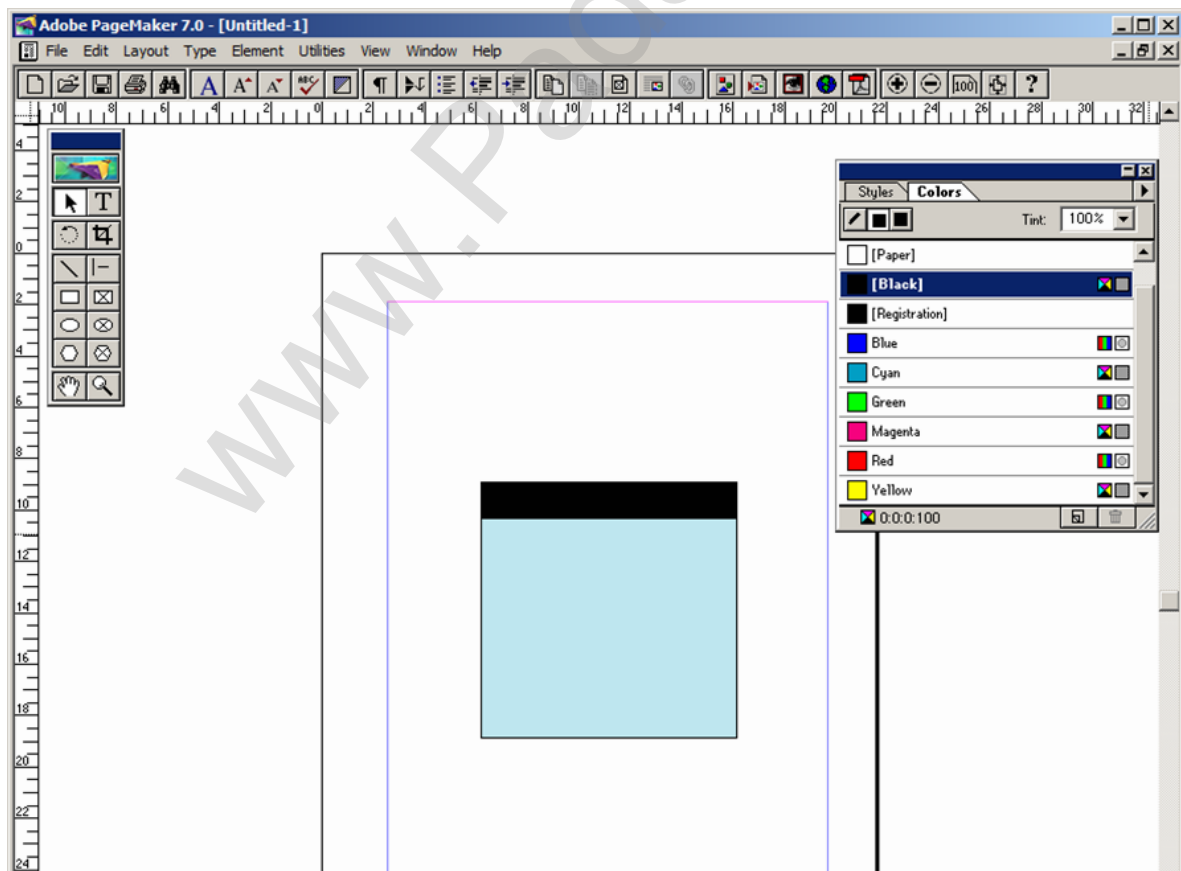
Student Notice Board

AIM

To create a Student Notice Board.

Procedure

1. Start the PageMaker using the following commands.

   Start → All Programs → Adobe → PageMaker7.0 → AdobePageMaker7.0. The Adobe PageMaker window will be opened.

2. Choose File → New in the menu bar (or) Press Ctrl + N in the keyboard.

   This opens the Document Setup dialog box.

3. Click on OK button.

   Now a new document called Untitled – 1 will appear on the screen.

4. Create a box with dimension 100 mm x 100 mm using the Rectangle tool. Fill it with cyan colour and change the percentage value of tint to 25%. The resulting box is as shown in Figure.
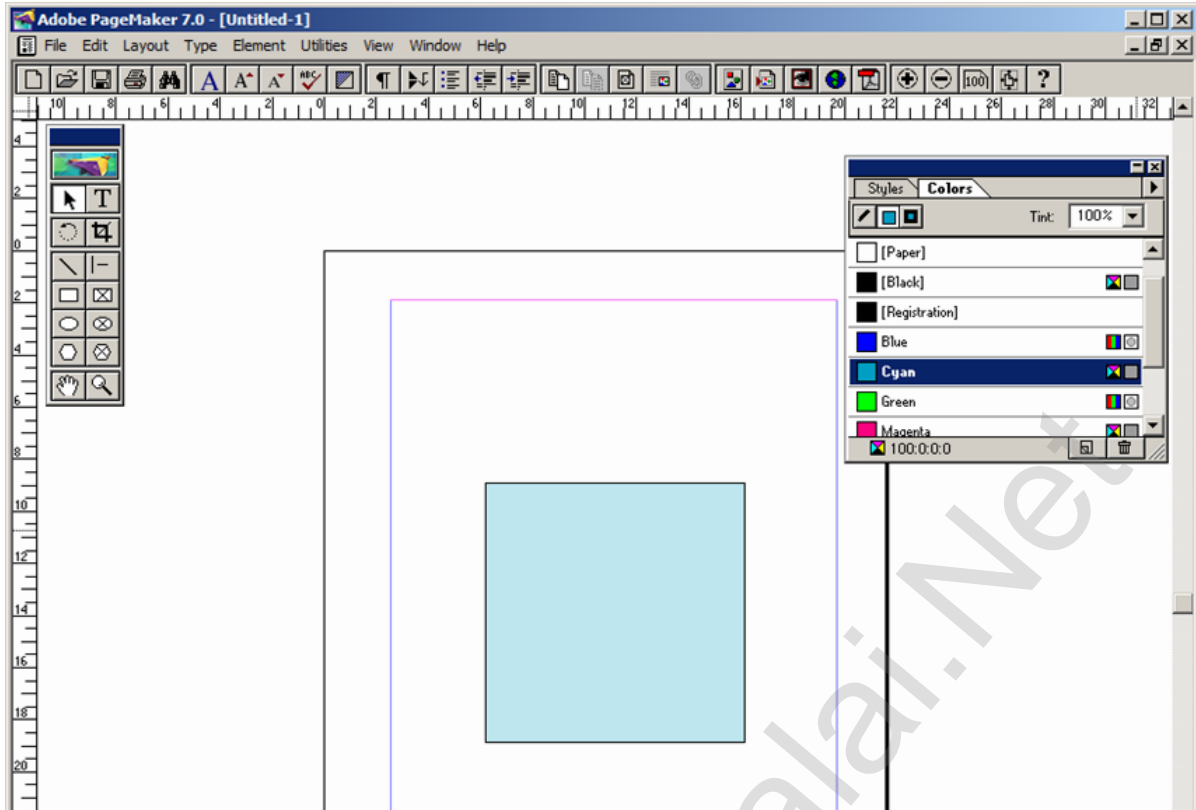
5. Similarly create another box with dimension 100 mm x 15 mm. Fill it with black colour and place it on the top portion of the cyan filled box as shown in figure.

6. With the text tool click and drag the mouse from the left corner to the right corner of the black filled box and type the following words "Student Notice Board".

The colour of the text and the colour of the box will be same black colour. As soon as you finish typing press Ctrl + A in the keyboard which will select the entire text.

Using Character Control palette change the font size to 20 points and click on the Bold button. Then click on the Reverse button which will change the colour of the text to white and press Shift + Ctrl + C for centre alignment. The result is as shown in Figure.

Output

> **Conclusion**
>
> The expected output is achieved.

03
EXERCISE
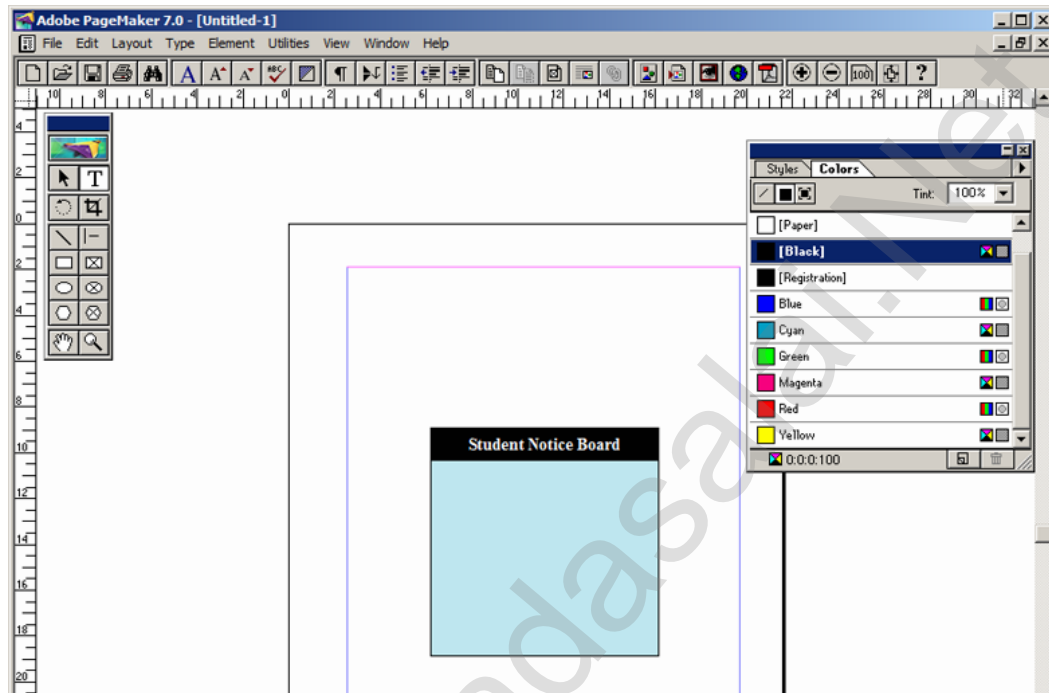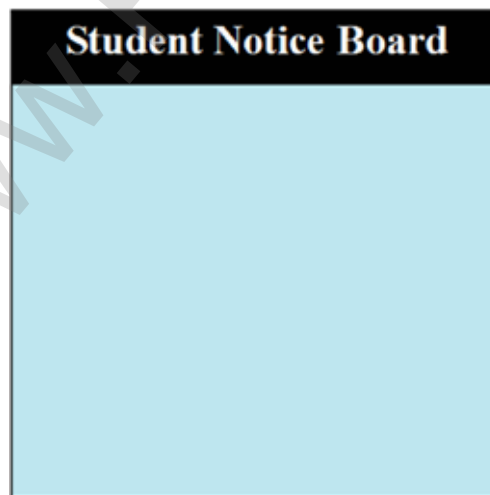
Creating Visiting Card using PageMaker

Question

Create the following Visiting Card using PageMaker.
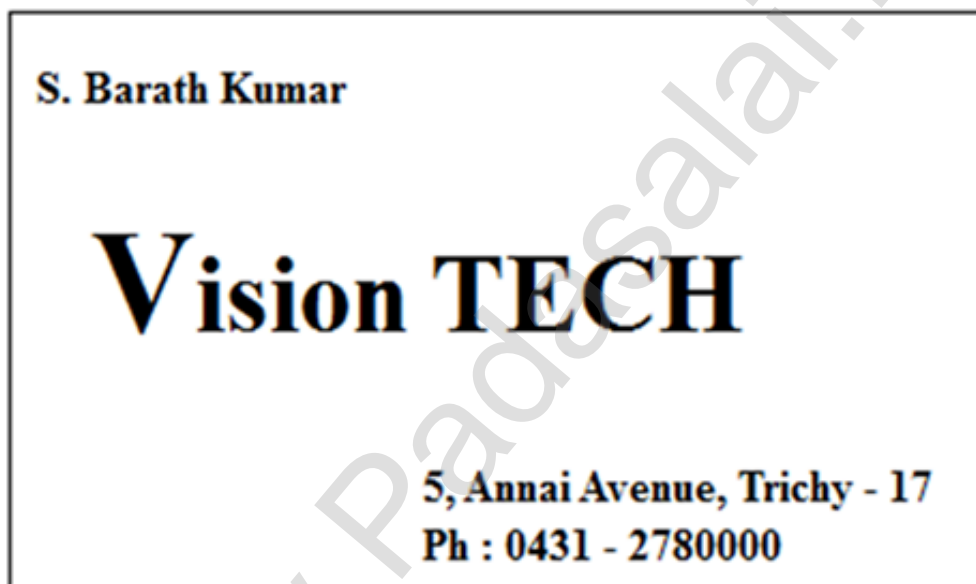
AIM

To create a visiting card using PageMaker software.

Procedure

1. Start the PageMaker using the following commands.

   Start → All Programs → Adobe → PageMaker 7.0 → Adobe PageMaker7.0. The Adobe PageMaker window will be opened as shown in Figure 1.1.
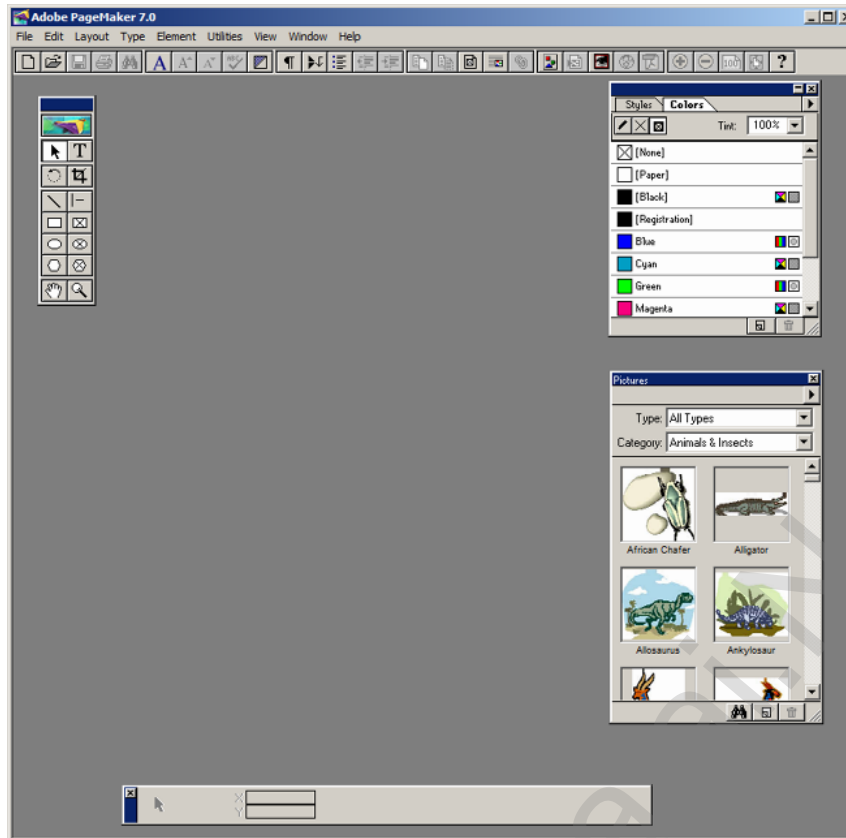
2. Choose File → New in the menu bar (or) Press Ctrl + N in the keyboard.

This opens the Document Setup dialog box.

3. Click on OK.

Now a new document called Untitled – 1 will appear on the screen as shown in Figure.

4. Now you can change Measuring Units from Inches to Millimeters.

Choose File → Preferences → general (or) Press Ctrl + K. Now Preferences dialogue box appears.

Change the unit of Measurements and Vertical ruler to Millimeters.
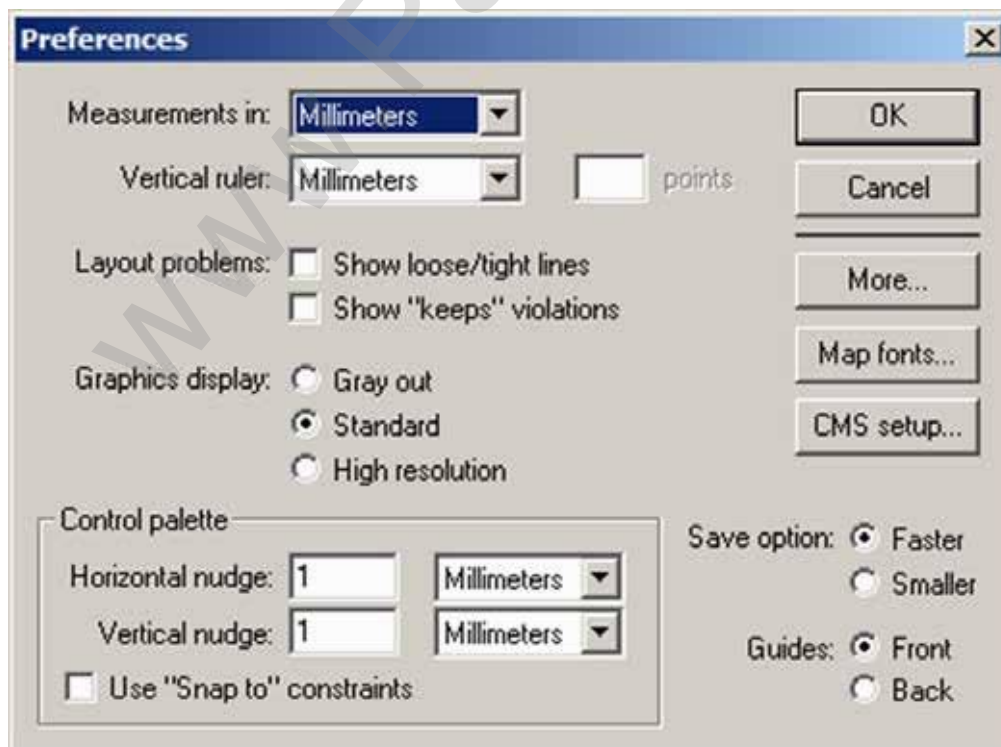
5. Select the Rectangle Tool from the Tool box and draw a rectangle.

6. Using Control Palette, the width and height value of the rectangle has to be set to 95 mm and 55 mm respectively.
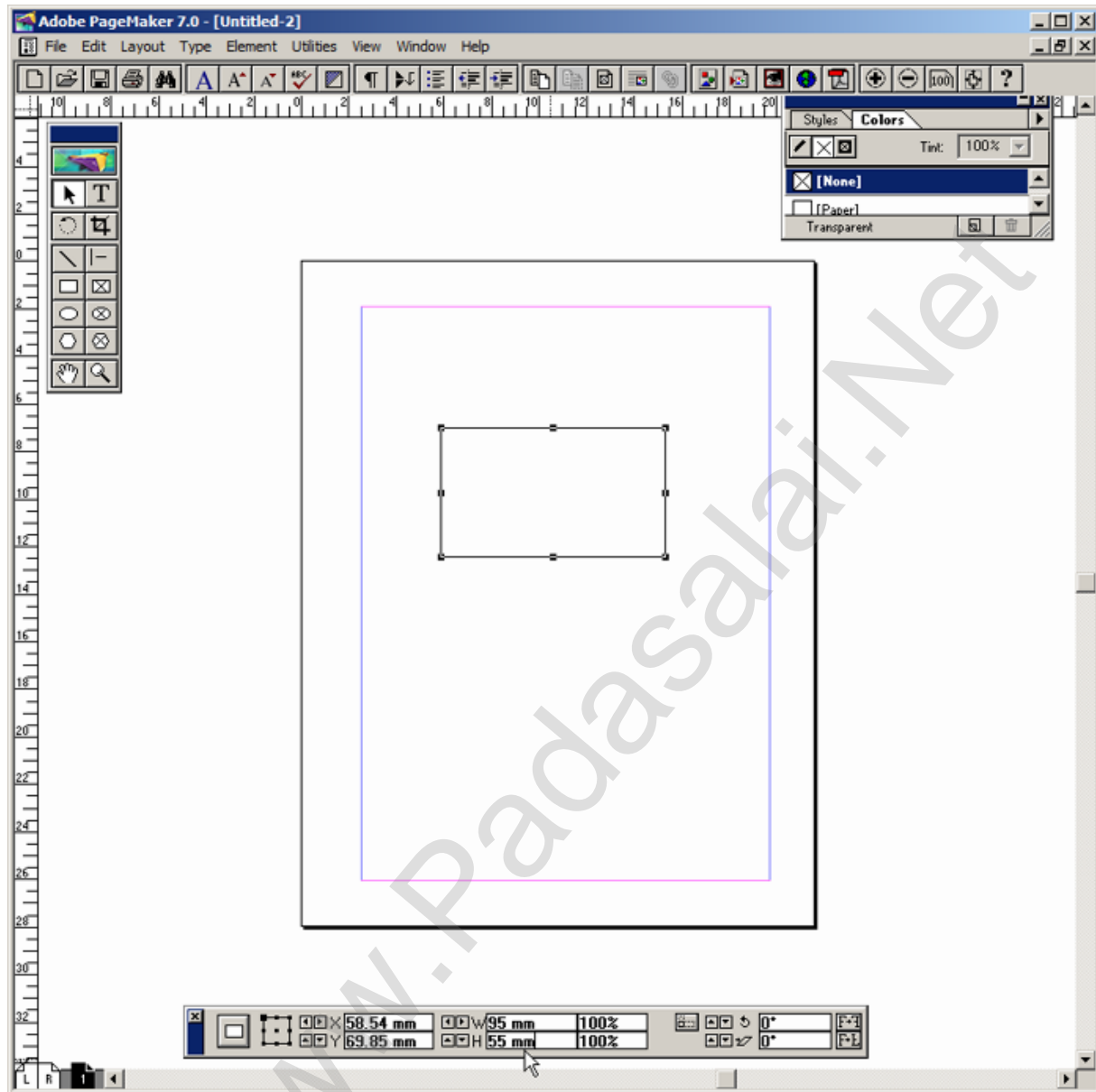
7. Select the Text Tool in the Tool box. Then drag from the left corner of the rectangle box to the right corner to specify the boundary of the text that is to be typed.

8. Type the Name of the person and select it using Text tool. Choose suitable Font and Font Size from the Control Palette. Then move it a little bit towards right side.
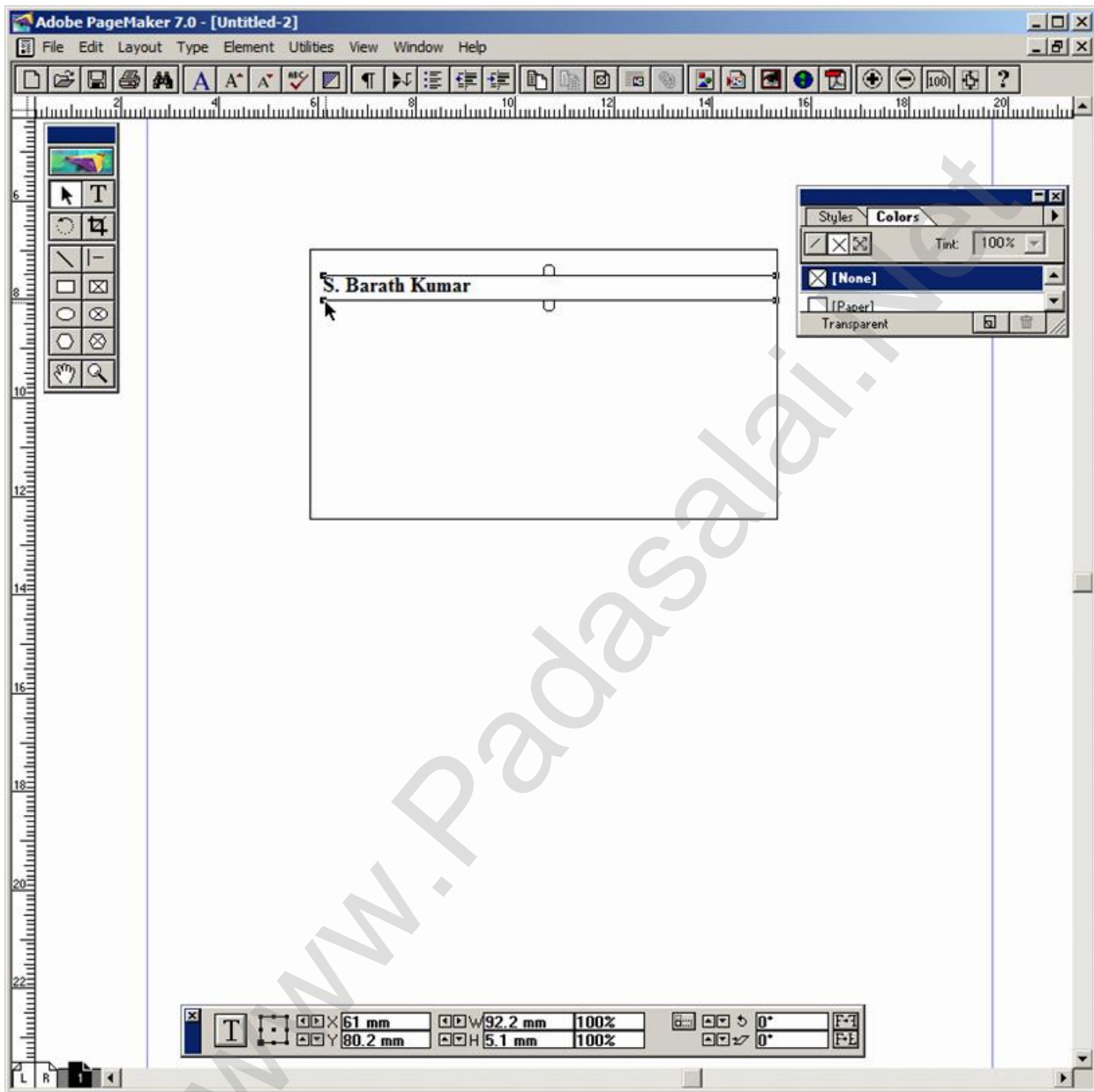
9. Repeat the step 7. Then type the Company name and select it using Text tool. Choose suitable Font and Font Size from the Control Palette. Then move it a little bit towards right side.

Select the First character using the Text tool and increase the font size.
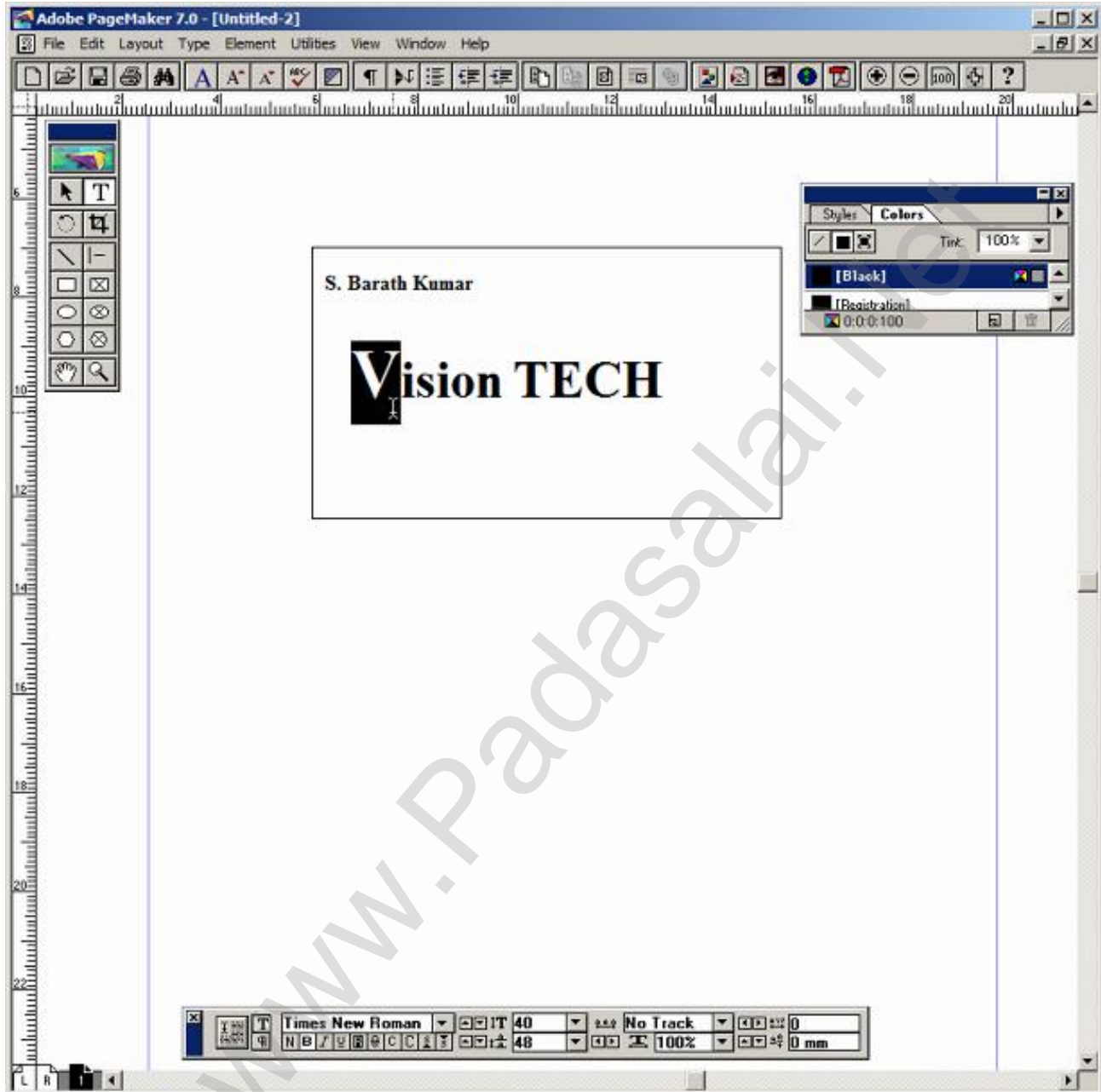
10. Repeat the step 7. Then type the Company Address and select it using Text tool. Choose suitable Font and Font Size from the Control Palette. Then move it towards right side.
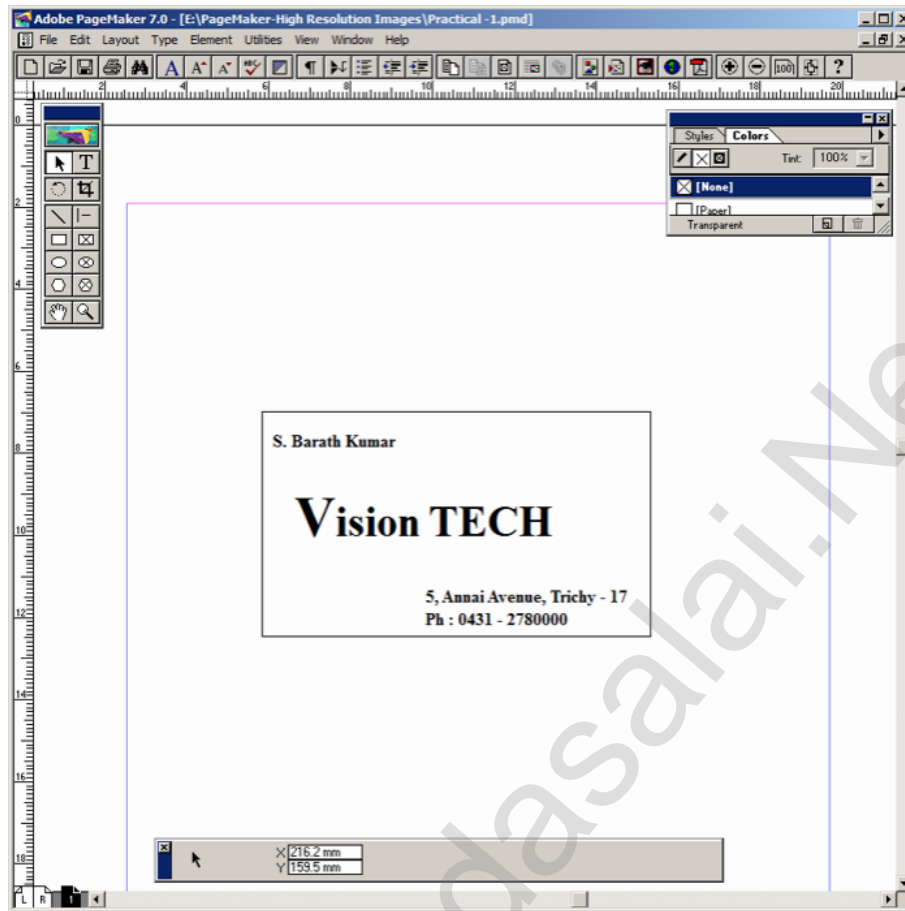
Output
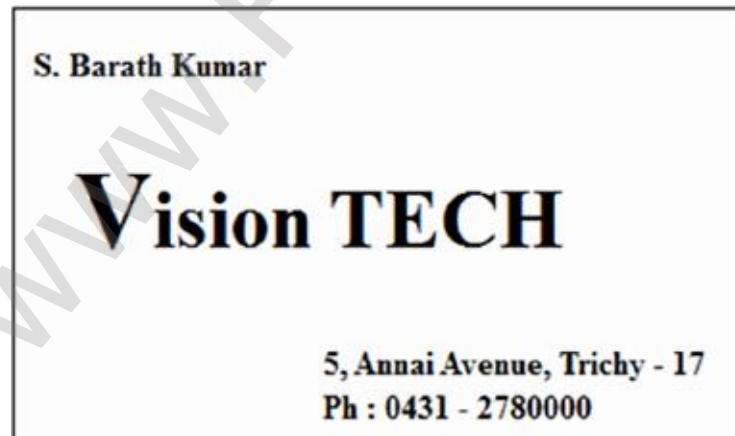
Conclusion

The expected output is achieved.

04
EXERCISE

Creating Notice Board using PageMaker

Question

Create the following Label using PageMaker.

```
Name : ..................................................................
STD : ...................................................................
Section : ..............................................................
School : ...............................................................
Subject : ..............................................................
```

AIM

To create a Label using PageMaker software.

Procedure

1. Start the PageMaker using the following commands.

   Start → All Programs → Adobe → PageMaker7.0 → Adobe PageMaker7.0.

2. Choose File → New in the menu bar (or) Press Ctrl + N in the keyboard.

   This opens the Document Setup dialog box.

3. Click on OK.

   Now a new document called Untitled – 1 will appear on the screen.

4. Now you can change Measuring Units from Inches to Millimeters.

   Choose File → Preferences → general (or) Press Ctrl + K. Now Preferences dialogue box appears.

   Change the unit of Measurements and Vertical ruler to Millimeters.

5. Select the Rectangle Tool from the Tool box and draw a rectangle.

6. Using Control Palette, the width and height value of the rectangle has to be set to 100 mm and 40 mm respectively.

7. Choose Element → Rounded corners from the menu bar.

8. Choose the required shape from the rounded corners dialog box. Now the rectangle appears with the rounded corners.

9. Select the Text Tool in the Tool box and create a text block within the rectangle.

10. Type **Name :** and press a Tab key and then press Enter key.

    Type **STD :** and press a Tab key and then press Enter key.

    Type **Section :** and press a Tab key and then press Enter key.

    Type **School :** and press a Tab key and then press Enter key.

    Type **Subject :** and press a Tab key.

11. Select all the text using Text tool.

12. Choose Type → Indents / Tabs (or) press Ctrl + I.

13. Set a right tab at the value 90 mm and choose the dotted line style from the leader option then choose Position → Add tab Press Apply button then Press OK button.
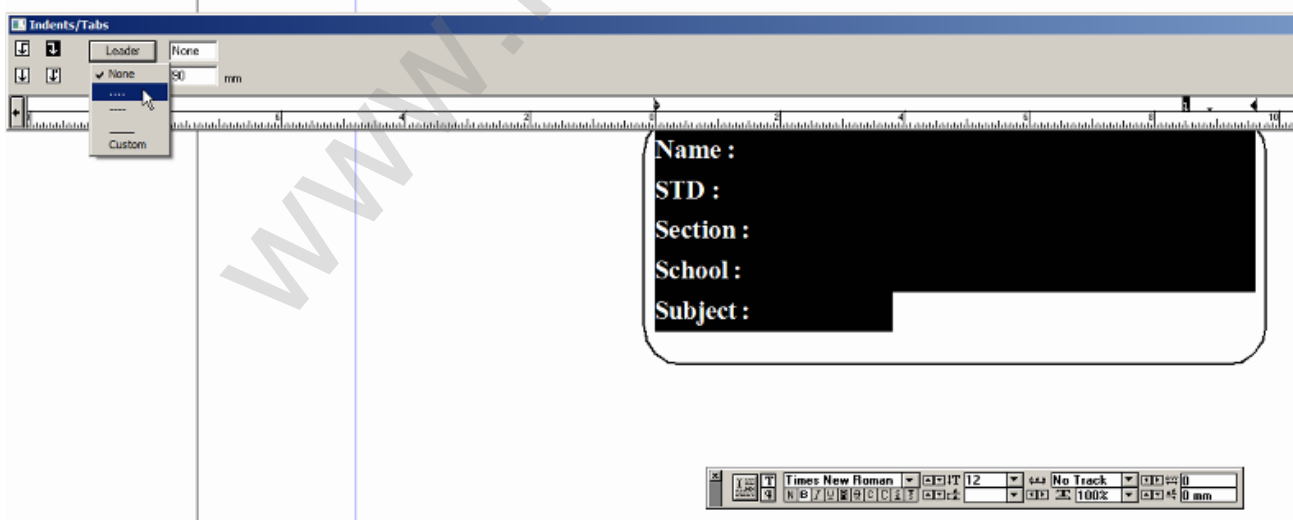
14. Now the required label is created.
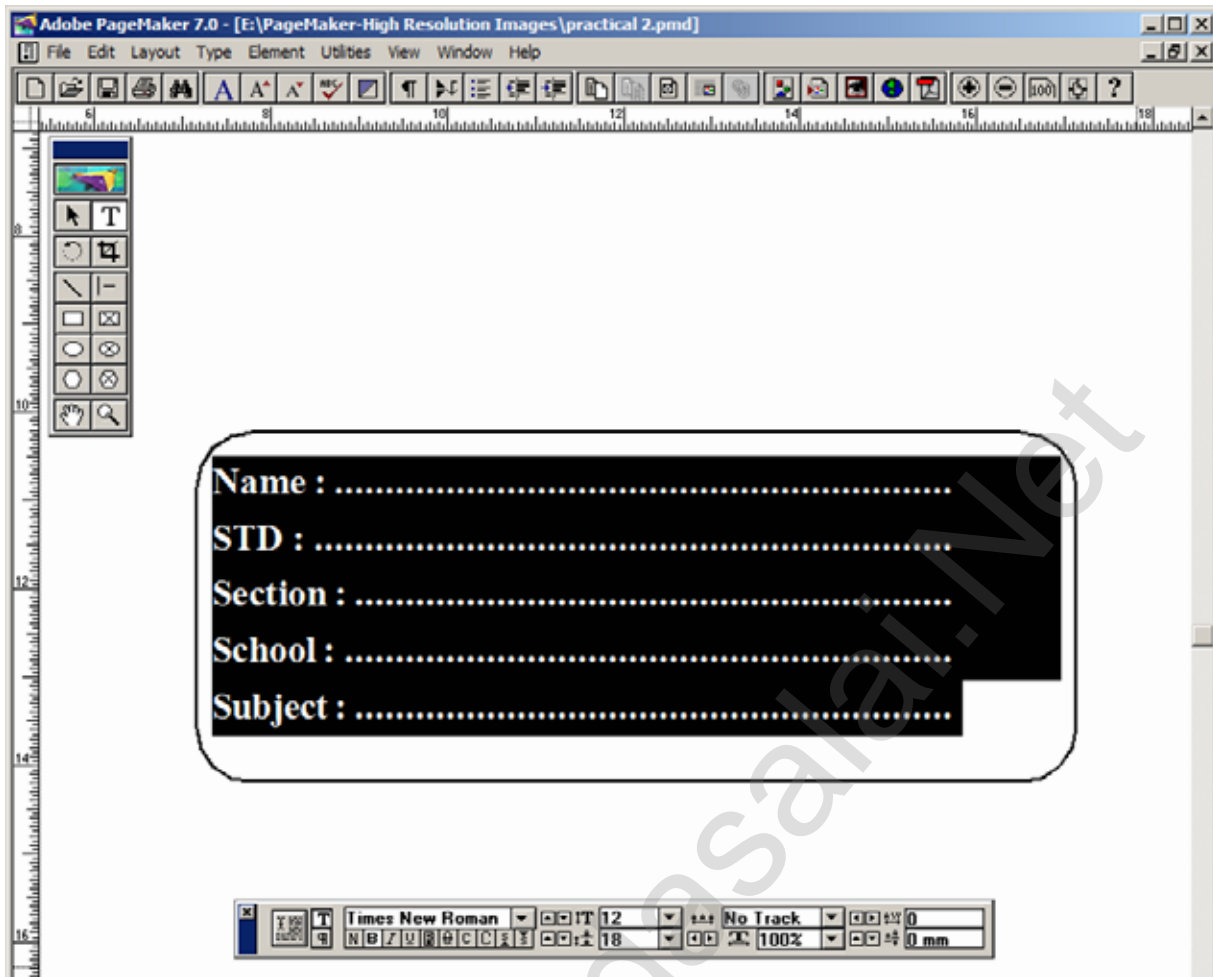
Output
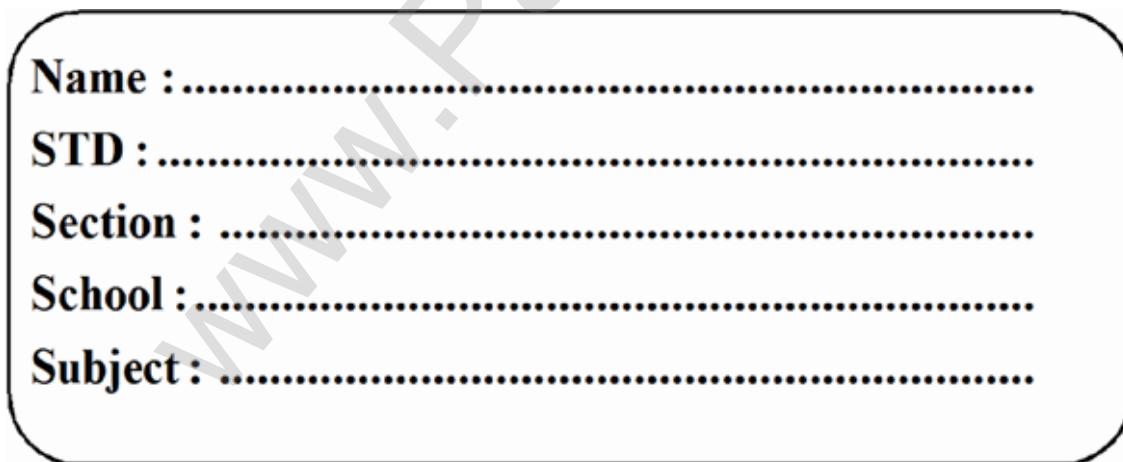
Conclusion

The expected output is achieved.

05
EXERCISE

Performing Arithmetic Operations using PHP

Write a PHP script to do the operations including addition, subtraction, multiplication, division, modulus on 2 variables with values 10 and 5. The script should output the resultsof each operation on a separate line.

AIM

To perform various arithmetic operations on two variables and output the results.

Procedure

1. Open a new file in your text editor(Notepad).
2. Type the following PHP script.
3. Save the file in the following format "filename.php".
   Let us take **pl.php** for an example.
4. Save the file **pl.php** in the htdocs folder,which resides inside the xampp folder.
5. Run the XAMPP server and start the Apache and MySQL**.**
6. Go to the browser and type:- **localhost/pl.php**
   In your web browser, you should see the results of your script.

PHP SCRIPT

```php
<?php
    $num1 = 10;
    $num2 = 5;
    $sum = $num1 + $num2;
    $sub = $num1 - $num2;
    $mul = $num1 * $num2;
    $div = $num1 / $num2;
    $mod = $num1 % $num2;
    echo "The sum of $num1 and $num2 is: $sum"."<br>";
    echo "The subtraction of $num1 and $num2 is:$sub"."<br>";
    echo "The multiplication of $num1 and $num2 is: $mul"
    ."<br>";
    echo "The division of $num1 and $num2 is: $div" ."<br>";
    echo "The modulus of $num1 and $num2 is: $mod" ."<br>";
?>
```

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Output

The sum of 10 and 5 is: 15

The subtraction of 10 and 5 is: 5

The multiplication of 10 and 5 is: 50

The division of 10 and 5 is: 2

The modulus of 10 and 5 is: 0

Conclusion

The expected output is achieved.

06

EXERCISE

Using a if...else if...else Statement in PHP

Write a PHP script that stores a value in a variable and then checks if it is less than, equal to or greater than 5?

AIM

To check if a variable is less than, equal to,or greater than 5 and output the corresponding message.

Procedure

1. Open a new file inyour text editor (Notepad).
2. Type the following PHP script.
3. Save the file in the following format "filename.php".
   Let us take **p2.php** for an example.
4. Save the file **p2.php** in the htdocs folder,which resides inside the xampp folder
5. Run the XAMPP server and start the Apache and MySQL
6. Go to the browser and type :- **localhost/p2.php**
7. In your web browser, you should see the results of your script.

PHP SCRIPT

```php
<?php
$num = 10;
if ($num < 5)
{
    echo "The number is less than 5.";
}
elseif ($num > 5)
{
    echo "The number is greater than 5.";
}
else
{
    echo "The number is equal to 5.";
}

?>
```

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Output

The number is greater than 5.

Conclusion

The expected output is achieved.

07
EXERCISE

Using a switch statement in PHP

Write a PHP script that takes a number and outputs the corresponding text for the number using switch statement.

AIM

To output the corresponding text for a number using a switch statement.

Procedure

1. Open a new file in your text editor (Notepad).

2. Type the following PHP script.

3. Save the file in the following format "filename.php".
   Let us take **p3.php** for an example.

4. Save the file **p3.php** in the htdocs folder,which resides inside the xampp folder

5. Run the XAMPP server and start the Apache and MySQL

6. Go to the browser and type :- **localhost/p3.php**

7. In your web browser, you should see the results of your script.

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PHP SCRIPT

```php
<?php
$num = 3;
switch ($num)
{
   Case 1:
      echo "One";
      break;
   case 2:
      echo "Two";
      break;
   case 3:
      echo "Three";
      break;
   case 4:
       echo "Four";
       break;
   case 5:
       echo "Five";
       break;
default:
      echo "Number is not between 1 to 5.";
      break;
}
?>
```

Output

Three

Conclusion

The expected output is achieved.

08
EXERCISE

Using a while Loop in PHP

Write a PHP script to print 1to10 number in separate line using while loop.

AIM

To print the numbers from 1 to 10 on separate lines using a while loop.

Procedure

1. Open a new file in your text editor (Notepad).

2. Type the following PHP script.

3. Save the file in the following format "filename.php".
   Let us take **p4.php** for an example.

4. Save the file **p4.php** in the htdocs folder,which resides inside the xampp folder

5. Run the XAMPP server and start the Apache and MySQL

6. Go to the browser and type :- **localhost/p4.php**

7. In your web browser, you should see the results of your script.

PHP SCRIPT

```php
<?php
$number = 1;
while ($number <= 10)
{
    echo "$number<br>";
    $number++;
}
?>
```

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Output

1

2

3

4

5

6

7

8

9

10

Conclusion

The expected output is achieved.

09
EXERCISE

Using a for Loop in PHP

Write a PHP script that calculates the sum and product of the numbers from 1 to 10 using for loop.

AIM

To write a PHP script that calculates the sum and product of the numbers from 1 to10 using for loop.

Procedure

1. Open a new file in your text editor (Notepad).

2. Type the following PHP script.

3. Save the file in the following format "filename.php".
   Let us take **p5.php** for an example.

4. Save the file **p5.php** in the htdocs folder,which resides inside the xampp folder

5. Run the XAMPP server and start the Apache and MySQL

6. Go to the browser and type :- **localhost/p5.php**

7. In your web browser, you should see the results of your script.

PHP SCRIPT

```php
<?php
$sum = 0;
$product = 1;

For ($i=1; $i<=10; $i++)
{
   $sum += $i;
   $product *= $i;
}
echo "The sum of the numbers from 1 to 10 is: $sum <br>";

echo "The product of the numbers from 1 to 10 is: $product";
```

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```
?>
```

Output

The sum of the numbers from 1 to 10 is: 55

The product of the numbers from 1 to 10 is: 3628800

Conclusion

The expected output is achieved.

10
EXERCISE

Using a foreach Loopin PHP

Write a PHP script that loops through an array of names, prints each name and its length, and counts the total number of names using 'foreach'.

AIM

To use a foreach loop to iterate through an array in PHP and access its elements.

Procedure

1. Open a new file in your text editor (Notepad).

2. Type the following PHP script.

3. Save the file in the following format "filename.php".
   Let us take **p6.php** for an example.

4. Save the file **p6.php** in the htdocs folder,which resides inside the xampp folder

5. Run the XAMPP server and start the Apache and MySQL

6. Go to the browser and type :- **localhost/p6.php**

7. In your web browser, you should see the results of your script.

PHP SCRIPT

```php
<?php
$names = array('Ram', 'Ravi', 'Kumar', 'Barath', 'Lavanya');
foreach ($names as $name)
{
  echo "Name: $name<br>";
  echo "Length:". strlen($name). "<br><br>";
}
$count = count($names);
echo "Total number of names: $count";
```

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```
?>
```

Output

Name:Ram

Length: 3

Name:Ravi

Length: 4

Name:Kumar

Length: 5

Name: Barath

Length: 6

Name:Lavanya

Length: 7

Total number of names: 5

Conclusion

The expected output is achieved.

Notes