

Date: 29.11.22

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Exp No: 7

CS1 - GROSS SALARY

AIM:

To write a C++ program to Input Basic salary of an employee and calculate its gross salary

CODING: -

```
#include <iostream>
using namespace std;
int main()
{
    float basic, gross, da, hra;
    cout << "Enter Basic Salary of an
            employee: ";
    cin >> basic;
    if (basic < 25000)
    {
        da = basic * 80 / 100;
        hra = basic * 20 / 100;
    }
    else if (basic >= 25000 && basic
            < 40000)
    {
        da = basic * 90 / 100;
        hra = basic * 25 / 100;
    }
}
```

}

else if (basic >= 40000)

{

da = basic * 95/100;

hra = basic * 30/100;

}

gross = basic + hra + da;

cout << " In It basic pay....." <<
basic << endl;

cout << " It Dearness allowance....."
<< da << endl;

cout << " It house rent allowance....."
<< hra << endl;

cout << " It _____" << endl;

cout << " It gross salary....."
<< gross << endl;

cout << " It _____" << endl;

return 0;

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OUTPUT !.

Enter Basic Salary of an employe :
25000

Basic pay : 25000

Dearness Allowance : 22500

House Rent Allowance : 6250

Gross Salary : 53750

RESULT :

There the C++ program was
successfully executed output was
verified

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Exp No: 2

CS2 - PERCENTAGE

AIM:

To write a C++ program to check percentage of a student and display the division scored using switch case.

CODING:

```
#include <iostream>
using namespace std;
int main ()
{
    float percent;
    int x;
    cout << "Enter your percentage:";
    cin >> percent;
    cout << "you scored" << percent
         << "%." << endl;
    x = percent / 10;
    switch (x)
    {
        case 10:
        case 9:
        case 8:
```

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cout << " You have passed with
Distinction" ;
break ;

case 7 :

case 6 :

cout << " you have passed with
first division" ;

break ;

case 5 :

cout << " you have passed with
second division" ;

break ;

case 4 :

cout << " you have passed with
third division" ;

break ;

default :

cout << " sorry : you have failed" ;

}

return 0 ;

{

OUTPUT - 1 :

Enter your percentage : 79

You scored 79%.

You have passed with first division

OUTPUT - 2 :

Enter your percentage : 39

You scored 39%.

Sorry, you have failed

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EXP NO: 3

CS3 - PALINDROME

AIM:

To write a C++ program to enter any number and check whether the number is palindrome or not using while loop

CODING:

```
#include <iostream>
using namespace std;
int main()
```

```
{
```

```
int n, num, digit, rev = 0;
```

```
cout << "Enter a positive number:"
```

```
cin >> num;
```

```
n = num;
```

```
while (num)
```

```
{
```

```
digit = num % 10;
```

```
rev = (rev * 10) + digit;
```

```
num = num / 10;
```

```
}
```

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cout << "The reverse of the number "


```
ds ; " || rev || endl ;
```

```
if (n == rev)
```

```
cout << " The number is a
```

```
palindrome" ;
```

```
else .
```

```
cout << " The number is not a
```

```
palindrome" ;
```

```
return 0 ;
```



OUTPUT 1 :

Enter a positive number to reverse :
1234

The reverse of the number is : 4321

The number is not a palindrome.

OUTPUT 2 :

Enter a positive number to reverse :
1221

The reverse of the number is : 1221

The number is a palindrome.

Switch (ch)

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```
{  
  case 1 : cout << "Enter a decimal  
            number : " ; cin >> dec ;  
  while ( dec != 0 )
```

```
{  
  d = dec % 2 ;  
  bin + = d * pow (10, i) ;  
  dec /= 2 ;  
  i++ ;
```

```
}  
  cout << temp << " in decimal = " <<  
  bin << " in binary " << endl ; break ;
```

```
case 2 : cout << "Enter a binary  
            number : " ; cin >> bin ;
```

```
temp = bin ;  
while ( bin != 0 )
```

```
{  
  d = bin % 10 ;  
  dec + = d * pow (2, i) ;  
  bin /= 10 ;
```

```
i-1 + ;
```

```
}
```

```
cout << temp << " in binary = " << dec  
    << " in decimal" ;
```

```
break ;
```

```
case : 3 : break ;
```

```
default : cout << "Invalid choice" ;
```

```
}
```

```
} while (ch != 3) ;
```

```
return 0 ;
```

```
}
```

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OUTPUT 1 :

MENU

- 1. Decimal to Binary Number
- 2. Binary to Decimal Number
- 3. Exit

Enter your choice (1/2/3) 1

Enter a decimal number: 23

23 in decimal = 10111 in binary

MENU

- 1. Decimal to Binary Number
- 2. Binary to Decimal number
- 3. Exit

Enter your choice (1/2/3) 2

Enter a binary number: 11001

11001 in binary = 25 in decimal

MENU

- 1. Decimal to Binary Number
- 2. Binary to Decimal number
- 3. Exit

Enter your choice (1/2/3) 3

OUTPUT 2 :

MENU

1. Decimal to Binary numbers
2. Binary to decimal numbers
3. Exit

Enter your choice (1/2/3) 1

Invalid choice

MENU

1. Decimal to Binary numbers
2. Binary to decimal numbers
3. Exit

Enter your choice (1/2/3) 3

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EXP NO : 5 CS5 - FIBONACCI PRIME SERIES

AIM :

To write a C++ program using a user defined function to generate the fibonacci series till n terms and prime if each term is prime or composite.

CODING :

```
#include <iostream>
#include <stdlib.h>
using namespace std;
void primechk(int a)
{
    int j;
    if (a == 0 || a == 1)
    {
        cout << " NEITHER PRIME NOR COMPOSITE ";
    }
    else
    {
        for (j = 2; j < a; j++)
        {
            if (a % j == 0)
            {
                cout << " It COMPOSITE ";
                break;
            }
        }
    }
}
```

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```
if (a == j)
    cout << "It PRIME";
```

```
}
```

```
}
```

```
void fibo (int n)
{ int a = -1, b = 1, c = 0;
  for (int i = 1; i <= n; i++)
  {
```

```
    cout << endl;
```

```
    c = a + b;
```

```
    cout << c;
```

```
    primecheck(c);
```

```
    a = b;
```

```
    b = c;
```

```
}
```

```
}
```

```
int main ()
```

```
{
```

```
    int n;
```

```
    cout << "ENTER THE NUMBER OF
```

```
    REQUIRED FIBO TERMS";
```

```
    cin >> n;
```

CODE 22nd In 1E FIBONACCI SERIES (n) ;

Fibo (n) ;

return 0 ;

}

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OUTPUT !.

ENTER THE NUMBER OF TERMS 10

FIBONACCI SERIES

- 0 NEITHER PRIME NOR COMPOSITE
- 1 NEITHER PRIME NOR COMPOSITE
- 1 NEITHER PRIME NOR COMPOSITE
- 2 PRIME
- 3 PRIME
- 5 PRIME
- 8 COMPOSITE
- 13 PRIME
- 21 COMPOSITE
- 34 COMPOSITE