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SOMETIMES

LATER BECOMES NEVER!!!

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PROGRAM QUESTIONS

XII- COMPUTER SCIENCE

Padasalai

J. BASKARAN M.Sc., B.Ed. (C.S)

jbaskaran89@gmail.com

Puducherry.

J. ILAKKIA M.Sc., M.Phil., B.Ed. (C.S)

jilakkia@gmail.com

Puducherry.

PROGRAM QUESTIONS

1. Write a program to check if a number is Positive, Negative or zero.

CODE:

```
num = float(input("Enter a number: "))
if num > 0:
    print("Positive number")
elif num == 0:
    print("Zero")
else:
    print("Negative number")
```

OUTPUT:

```
>>>
===== RESTART: C:/Users/SANJANASRI/Desktop/positive no.py =====
Enter a number: 1
Positive number
>>>
===== RESTART: C:/Users/SANJANASRI/Desktop/positive no.py =====
Enter a number: -2
Negative number
>>>
===== RESTART: C:/Users/SANJANASRI/Desktop/positive no.py =====
Enter a number: 0
Zero
>>>
```

2. Write a program to display

A
A B
A B C
A B C D
A B C D E

CODE:

```
a=['A','B','C','D','E']
for i in range(0,6):
    for j in range(0,i):
        print(a[j],end=" ")
    else:
        print()
```

OUTPUT:

A
 A B
 A B C
 A B C D
 A B C D E

3. Write a program to print the following pattern

```
*
**
***
****
*****
```

CODE:

```
str1='*'
i=1
while i<=5:
    print (str1*i)
    i+=1
```

OUTPUT:

```
>>>
===== RESTART: C:/Users/SANJANASRI/Desktop/positive no.py =====
*
**
***
****
*****
```

```
>>>
```

4. Write a program to print the following pattern

```
C
C O
C O M
C O M P
C O M P U
C O M P U T
C O M P U T E
C O M P U T E R
```

CODE:

```
str1="COMPUTER"
index=0
for i in str1:
    print (str1[:index+1])
    index+=1
```

OUTPUT:

C
 C O
 C O M
 C O M P
 C O M P U
 C O M P U T
 C O M P U T E
 C O M P U T E R

5. Write a program to print the following pattern.

COMPUTER
 COMPUTE
 COMPUT
 COMPU
 COMP
 COM
 CO
 C

CODE:

```
str1="COMPUTER"
index=7
for i in str1:
    print (str1[:index+1])
    index-=1
```

OUTPUT:

COMPUTER
 COMPUTE
 COMPUT
 COMPU
 COMP
 COM
 CO
 C

6. What will be the output of the given python program?

CODE:

```
str1 = "welcome"
str2 = "to school"
str3=str1[:2]+str2[len(str2)-2:]
print(str3)
```

OUTPUT:

weol

7. What will be the output of the following python code?

CODE:

```
str1 = "Welcome"  
print(str1 *3)
```

OUTPUT:

Welcome Welcome Welcome

8. What will be the output of the following python code?

CODE:

```
list=[2**X for X in range(5)]  
print(list)
```

OUTPUT:

[1, 2, 4, 8, 16]

9. What will be the output of the following python code?

CODE:

```
y=[y**2 for y in range(5)]  
print(y)
```

OUTPUT:

[0, 1, 4, 9, 16]

10. What will be the output of the following python code?

CODE:

```
def fact(n):  
    if n==0:  
        return 1  
    else:  
        return n*fact(n-1)  
print(fact(0))
```

OUTPUT:

1

11. What will be the value of x in following python code?

CODE:

```
list1=[10,11,12,[9,13,15]]  
x=len(list1)  
print(x)
```

OUTPUT:

4

12. What will be the output of the following python code?**CODE:**

```
class Greeting:
    def __init__(self, name):
        self.__name = name
    def display(self):
        print("Hello Students ", self.__name)
obj=Greeting('Good Morning!')
obj.display()
```

OUTPUT:

Hello Students Good Morning!

13. Write a python code to check whether the given year is leap year or not?**CODE:**

```
n=int(input("Enter the year"))
if(n%4==0):
    print ("Leap Year")
else:
    print ("Not a Leap Year")
```

OUTPUT:

Enter the year 2020
Leap Year

14. What will be the output of the following python code?**CODE:**

```
str1 = "Welcome to learn Python"
print(str1[10:16])
print(str1[::-2])
print(str1[0:7])
print(str1[12:])
print(str1[::3])
print(str1*2)
```

OUTPUT:

learn
nhy re teoIW
Welcome
earn Python
Wceoenyo
Welcome to learn Python Welcome to learn Python

15. Write a python code to display the sum of n natural numbers.**CODE:**

```

num=int(input("Enter the number"))
if num < 0:
    print("Enter a positive number")
else:
    sum = 0
    while(num > 0):
        sum += num
        num -= 1
    print("The sum is", sum)

```

OUTPUT:

Enter the number 5
The sum is 15

16. Write a python code to check the given character is a vowel or Consonant.**CODE:**

```

ch = input("Please Enter Your Own Character : ")
if(ch == 'a' or ch == 'e' or ch == 'i' or ch == 'o' or ch == 'u' or ch == 'A' or ch == 'E' or ch == 'I' or ch == 'O' or ch == 'U'):
    print("The Given Character ", ch, "is a Vowel")
else:
    print("The Given Character ", ch, "is a Consonant")

```

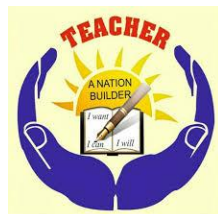
OUTPUT:

Please Enter Your Own Character : A
The Given Character A is a Vowel
>>>
Please Enter Your Own Character : n
The Given Character n is a Consonant

PREPARED BY

J. BASKARAN M.Sc., B.Ed. (C.S)
jbaskaran89@gmail.com
Puducherry.

J. ILAKKIA M.Sc., M.Phil., B.Ed. (C.S)
jilakkia@gmail.com
Puducherry.



****ALL THE BEST ****