Padasalai’s Telegram Groups!

(தமிழ்ப் படிப்புக் திட்டம் கையேற்க திறன் வாய்ப்பு வாய்ந்தவை தெரியவும்!)

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DO IT NOW!!!

Sometimes

Later becomes never!!!

Start your preparation now and succeed in your exams!

Program Questions

XII- Computer Science

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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()
3. Write a program to print the following pattern

* 
** 
*** 
**** 
*****

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

**OUTPUT:**
>>> 
******** 
* 
** 
*** 
**** 
***** 
>>> 

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

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OUTPut:
C
CO
COM
COMP
COMPUT
COMPUTE
COMPUTER

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:**

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

**OUTPUT:**
Welcome Welcome Welcome

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

**CODE:**

```python
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:**

```python
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:**

```python
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:**

```python
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:**
```python
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:**
```python
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:**
```python
str1 = "Welcome to learn Python"
print(str1[10:16])
print(str1[:,-2])
print(str1[0:7])
print(str1[12:1])
print(str1[:3])
print(str1*2)
```

**OUTPUT:**
learn
nhy re teolW
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

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****ALL THE BEST ****