Python Practical's

Smit Joshi | 20-07-2023

Practical 1

WRITE A PROGRAM TO PRINT NUMBERS FROM 1 TO 50

```
collage > 🐍 practical1.py > ...
   1    # write a program to print numbers from 1 to 50
   2    for i in range(1,51):
   3        print(i)
```

```
PROBLEMS  2     OUTPUT     DEBUG CONSOLE     TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python> cd collage
PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py .\practical1.py
1
2
3
4
5
6
7
8
```

Practical 2

WRITE A PROGRAM TO PRINT ALL THE NUMBERS B/W 11 TO 100 WHICH ARE MULTIPLE OF 7

```python
collage > practical2.py > ...
1   # Write a program to print all the numbers b/w 11 to 100 which are multiple of 7
2
3   for i in range(7,100,7):
4       print(i)
```

```
PROBLEMS  2    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py .\practical2.py
7
14
21
28
35
42
49
56
63
70
77
84
91
98
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```

Practical 3

WRITE ANY PROGRAM TO PRINT NUMBERS FROM 75 TO 21 IN REVERSE ORDER

```python
collage > 🐍 practical3.py > ...
1    # Write any Program to print numbers from 75 to 21 in reverse order
2    i=75
3    while i>=21:
4        print(i)
5        i-=1
```

```
PROBLEMS  2    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py .\practical3.py
75
74
73
72
71
70
69
68
67
66
65
```

Practical 4

WRITE A PROGRAM TO GET 3 NUMBERS FROM USER AND FIND THE
LARGEST NUMBER FROM IT AND PRINT THE RESULT

```python
collage > practical4.py > ...
1    # Write a program to get 3 numbers from user
2    # and find the largest number from it and print the result
3
4    num1=int(input("Enter number 1 "))
5    num2=int(input("Enter number 2 "))
6    num3=int(input("Enter number 3 "))
7
8    if num1>num2 and num1>num3:
9        print(f"{num1} is largest")
10   elif num2>num3:
11       print(f"{num2} is largest")
12   else:
13       print(f"{num3} is largest")
```

PROBLEMS 2   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py .\practical4.py
Enter number 1 20
Enter number 2 40
Enter number 3 30
40 is largest
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```

Practical 5

\# WRITE A PROGRAM TO TAKE PERCENTAGE OF STUDENT AS AN INPUT
AND DISPLAY THE GRADE OF STUDENT
IF PER >=85 GRADE A
PER >=75 AND <85 GRADE B
PER >=65 AND <75 GRADE C
PER >=55 AND <65 GRADE D
PER >=40 AND <55 GRADE E
PER <40 GRADE F

```
collage > 🐍 practical5.py > ...
   1    # Write a program to take percentage of student as an input
   2    # and display the grade of student
   3    # if per >=85 Grade A
   4    # per >=75 and <85 Grade B
   5    # per >=65 and <75 Grade C
   6    # per >=55 and <65 Grade D
   7    # per >=40 and <55 grade E
   8    # per <40 Grade F
   9
  10    percentage=int(input("Enter Percentage: "))
  11    grade=''
  12    if percentage >=85: grade='A'
  13    elif percentage >=75 and percentage<85:grade='B'
  14    elif percentage>=65 and percentage <75:grade='C'
  15    elif percentage>=55 and percentage<65:grade='D'
  16    elif percentage>=40 and percentage<55:grade='E'
  17    elif percentage<40:grade='F'
  18
  19    print(f"Your Grade is {grade}")
  20

PROBLEMS  2     OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py practical5.py
Enter Percentage: 89
Your Grade is A
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```

Practical 6

WRITE A PROGRAM TO TAKE INPUT FROM USER AND FIND WHEATHER THE NUMBER IS EVEN OR ODD

```python
collage > practical6.py > ...
1    # Write a program to take input from user
2    # and find wheather the number is even or odd
3
4    number=int(input("Enter Number : "))
5    if number%2==0:
6        print(f"{number} is Even")
7    else:
8        print(f"{number} is odd")
```

```
PROBLEMS  2      OUTPUT     DEBUG CONSOLE     TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py practical6.py
Enter Number : 10
10 is Even
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```

Practical 7

#WRITE A PROGRAM TO TAKE 7 NUMBERS FROM USER AND CALCULATE
THE SUM OF THOSE 7 NUMBERS & DISPLAY RESULTS

```python
collage > 🐍 practical7.py > ...
1    #Write a program to take 7 numbers from user and
2    # calculate the sum of those 7 numbers & display result
3
4    sum=0
5    for i in range(1,8):
6        sum+=int(input(f"Enter Number {i} "))
7    print(f"the summation is {sum}")
```

```
PROBLEMS  2    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py practical7.py
Enter Number 1 10
Enter Number 2 30
Enter Number 3 40
Enter Number 4 27
Enter Number 5 89
Enter Number 6 90
Enter Number 7 10
the summation is 296
PS D:\LEARNING\COLLAGE\SAM7\Python\collage> ▐
```

Practical 8

WRITE A PROGRAM TO CALCULATE SUM OF ALL THE NUMBERS B/W 71 TO 80

```
collage >  practical8.py > ...
1    # Write a program to calculate sum of all the numbers b/w 71 to 80
2    sum=0
3    for i in range(71,81):
4        sum+=i
5    print(f"The sum is {sum}")




PROBLEMS  2    OUTPUT    DEBUG CONSOLE    TERMINAL

PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py practical8.py
The sum is 755
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```

Practical 9

WRITE A PROGRAM TO FIND THE PRODUCT OF ALL THE NUMBERS B/W 21 TO 30

```
collage > practical9.py > ...
1    # Write a program to find the product of all the numbers b/w 21 to 30
2    product=1
3    for i in range(21,31):
4        product*=i
5    print(f"The product is {product}")
```

PROBLEMS 2   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py practical9.py
The product is 109027350432000
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```

Practical 10

#WRITE A PROGRAM TO FIND THE GIVEN NUMBER IS PRIME OR NOT

```python
collage > practical10.py > ...
1    #Write a program to find the given number is prime or not
2    number=int(input("Enter Number : "))
3
4    flag=False
5    for i in range(2,number//2):
6        if number%i==0:
7            flag=True
8            break
9
10   if not(flag):
11       print(f"{number} is Prime Number")
12   else:
13       print(f"{number} is not a Prime Number")
```

PROBLEMS 2   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS D:\LEARNING\COLLAGE\SAM7\Python\collage> py practical10.py
Enter Number : 11
11 is Prime Number
PS D:\LEARNING\COLLAGE\SAM7\Python\collage>
```