

Internship task of Day-3(27-05-21)

1)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The code editor displays a Python file named '27-05-21.py' with the following content:

```
a=int(input("Enter first number"))
b=int(input("Enter second number"))
c=int(input("Enter third number"))
d=int(input("Enter fourth number"))
e=int(input("Enter fifth number"))
avg=(a+b+c+d+e)/5
print("The average is ",avg)
```

The terminal tab in VS Code shows the output of running the script:

```
PS C:\Users\darsh\OneDrive\Desktop\Internship & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number5
Enter second number8
Enter third number4
Enter fourth number1
Enter fifth number7
The average is 5.0
```

The desktop background is a scenic beach view.

2)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The code editor displays a Python file named '27-05-21.py' with the following content:

```
a=int(input("Enter a number "))
if(a%2==0):
    print(a," is even")
else:
    print(a, " is odd")
```

The terminal tab in VS Code shows the output of running the script:

```
Windows PowerShell
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PS C:\Users\darsh\OneDrive\Desktop\Internship & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter a number 75
75 is odd
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

The desktop background is a scenic beach view.

3)

4)

The screenshot shows a Windows desktop environment with Visual Studio Code open. The code editor displays a Python file named '27-05-21.py' containing the following code:

```
year=int(input("Enter your year "))
if(year%4==0):
    print(year," is leap year")
else:
    print(year," is not a leap year")
```

The terminal below shows the execution of the script:

```
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your year 1975
1975 is not a leap year
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your year 2020
2020 is leap year
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

5)

The screenshot shows a Windows desktop environment with Visual Studio Code open. The code editor displays a Python file named '27-05-21.py' containing the following code:

```
num=int(input("Enter your number "))
if(num>0):
    print(num," is positive")
elif(num<0):
    print(num," is negative")
else:
    print("Number is zero")
```

The terminal below shows the execution of the script:

```
hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your number 9
9 is positive
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your number 0
Number is zero
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your number -3
-3 is negative
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The code editor displays a Python script named '27-05-21.py' which compares two user inputs to determine which is greater. The terminal below shows the script being run and outputting the result based on the user's input.

```
File Edit Selection View Go Run Terminal Help
27-05-21.py - Internship - Visual Studio Code
EXPLORER ... 27-05-21.py x
INTERNSHIP
26-05-21.py
27-05-21.py
27-05-21.py > ...
1 num1=int(input("Enter number 1 "))
2 num2=int(input("Enter number 2 "))
3 if(num1>num2):
4     print(num1," is greater")
5 elif(num1<num2):
6     print(num2," is greater")
7 else:
8     print("Both are equal")

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 2: Python
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 1 75
[Open file in editor (ctrl + click)]
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 1 85
Enter number 2 85
Both are equal
PS C:\Users\darsh\OneDrive\Desktop\Internship>
Ln 8, Col 26 Spaces:4 UTF-8 CRLF Python ⚡ 🔍
Windows Search for anything
Search for anything
1056 AM ENG IN 5/28/2021
```

6)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The code editor displays a Python script named '27-05-21.py' which calculates the factorial of a given number. The terminal below shows the script being run and outputting the result for the user's input.

```
File Edit Selection View Go Run Terminal Help
27-05-21.py - Internship - Visual Studio Code
EXPLORER ... 27-05-21.py x
INTERNSHIP
26-05-21.py
27-05-21.py
27-05-21.py > ...
1 num=int(input("Enter your number "))
2 result=1
3 for i in range(0,num):
4     result=result*(num-i)
5 print("Factorial of ",num," is ",result)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 2: Python
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your number 6
Factorial of 6 is 720
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter your number 5
Factorial of 5 is 120
PS C:\Users\darsh\OneDrive\Desktop\Internship>
Ln 5, Col 41 Spaces:4 UTF-8 CRLF Python ⚡ 🔍
Windows Search for anything
Search for anything
12:15 PM ENG IN 5/28/2021
```

7)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The code editor displays a Python script named '27-05-21.py' which swaps two numbers entered by the user:

```
1 num1=int(input("Enter first number "))
2 num2=int(input("Enter second number "))
3 temp=num1
4 num1=num2
5 num2=temp
6 print("After swapping number 1= ",num1," and number 2= ",num2)
```

The terminal tab below shows the execution of the script in a Windows PowerShell window:

```
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 45
Enter second number 63
After swapping number 1= 63 and number 2= 45
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

8)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The code editor displays a Python script named '27-05-21.py' which finds the smallest of two numbers entered by the user:

```
1 num1=int(input("Enter first number "))
2 num2=int(input("Enter second number "))
3 if(num1<num2):
4     print(num1," is smallest")
5 else:
6     print(num2," is smallest")
```

The terminal tab below shows the execution of the script in a Windows PowerShell window:

```
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 87
Enter second number 36
36 is smallest
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Python39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 1
Enter second number 5
1 is smallest
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

9)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The VS Code interface displays a Python script named '27-05-21.py' in the editor. The code uses an if-else statement to check if a user-entered number is even, odd, or greater than 100. The terminal tab shows the execution of the script and its output for three different input values: 47, 98, and 102. The desktop background features a scenic beach and ocean view.

```
27-05-21.py > ...
1 num1=int(input("Enter number "))
2 if(num1%2==0):
3     print(num1," is even")
4 else:
5     print(num1," is odd")
6 else:
7     print(num1," is greater than 100")

hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 47
47 is odd
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 98
98 is even
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 102
102 is greater than 100
PS C:\Users/darsh\OneDrive\Desktop\Internship>
```

10)

A screenshot of a Windows desktop environment showing Visual Studio Code (VS Code) running in the foreground. The VS Code interface displays a Python script named '27-05-21.py' in the editor. The code uses an if-else statement to calculate the square of a user-entered number if it is less than or equal to 10, and prints a message otherwise. The terminal tab shows the execution of the script and its output for two different input values: 7 and 19. The desktop background features a scenic beach and ocean view.

```
27-05-21.py > ...
1 num1=int(input("Enter number "))
2 if(num1<=10):
3     print(num1**2)
4 else:
5     print(num1,' is greater than 10')

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PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 7
49
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 19
19 is greater than 10
PS C:\Users/darsh\OneDrive\Desktop\Internship>
```

11)

The screenshot shows a Visual Studio Code interface. The left sidebar has a 'File' tab selected. The 'EXPLORER' view shows a folder named 'INTERNSHIP' containing two files: '26-05-21.py' and '27-05-21.py'. The main editor window displays the following Python code:

```
27-05-21.py x
27-05-21.py > ...
1 num1=int(input("Enter number "))
2 if(num1>0):
3     print(num1," is positive")
4 else:
5     print("It is zero")
6 else:
7     print(num1," is negative")
```

The terminal at the bottom shows the execution of the script:

```
hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 45
45 is positive
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number -39
-39 is negative
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter number 0
It is zero
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

12)

The screenshot shows a Visual Studio Code interface. The left sidebar has a 'File' tab selected. The 'EXPLORER' view shows a folder named 'INTERNSHIP' containing two files: '26-05-21.py' and '27-05-21.py'. The main editor window displays the following Python code:

```
27-05-21.py x
27-05-21.py > ...
1 num1=int(input("Enter first number "))
2 num2=int(input("Enter second number"))
3 num3=int(input("Enter third number"))
4 if(num1>num2):
5     if(num1>num3):
6         print(num1," is greatest")
7     else:
8         print(num3," is greatest")
9 else:
10    if(num2>num3):
11        print(num2," is greatest")
12    else:
13        print(num3," is greatest")
```

The terminal at the bottom shows the execution of the script:

```
hon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 45
Enter second number36
Enter third number75
75 is greatest
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyhon39/python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 96
Enter second number85
Enter third number81
96 is greatest
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

13)

A screenshot of the Visual Studio Code interface. The left sidebar shows a file tree with 'INTERNSHIP' folder containing '26-05-21.py' and '27-05-21.py'. The main editor window displays the following Python script:

```
27-05-21.py > ...
1 num1=int(input("Enter first number "))
2 num2=int(input("Enter second number "))
3 num3=int(input("Enter third number "))
4 if((num1>num2) and (num1>num3)):
5     print(num1," is greatest")
6 elif((num2>num1) and (num2>num3)):
7     print(num2," is greatest")
8 else:
9     print(num3," is greatest")
```

The terminal tab at the bottom shows the execution of the script:

```
hon39\python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 10
Enter second number 56
Enter third number 89
89 is greatest
PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyt
hon39\python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 96
Enter second number 158
Enter third number 17
158 is greatest
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

14)

A screenshot of the Visual Studio Code interface. The left sidebar shows a file tree with 'INTERNSHIP' folder containing '26-05-21.py' and '27-05-21.py'. The main editor window displays the following Python script:

```
27-05-21.py > ...
1 num1=int(input("Enter first number "))
2 num2=int(input("Enter second number "))
3 print("Before swapping: ",num1,num2)
4 num1,num2=num2,num1
5 print("After swapping: ",num1,num2)
```

The terminal tab at the bottom shows the execution of the script:

```
Windows PowerShell
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PS C:\Users\darsh\OneDrive\Desktop\Internship> & C:/Users/darsh/AppData/Local/Programs/Python/Pyt
hon39\python.exe c:/Users/darsh/OneDrive/Desktop/Internship/27-05-21.py
Enter first number 36
Enter second number 45
Before swapping: 36 45
After swapping: 45 36
PS C:\Users\darsh\OneDrive\Desktop\Internship>
```

15)

