

55923-PAVITHRA GADDAM

1. Write a Python program to check if a number is prime.

A screenshot of the Visual Studio Code interface. The code editor shows a Python file named 'prime.py' with the following content:

```
prime.py > ...
1 num= int ( input("enter a number:"))
2 for i in range(2,num):
3     if num % i==0:
4         print(num,"not a prime")
5         break
6     else:
7         print (num,"prime")
```

The terminal tab at the bottom shows the output of running the script:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\pavit\.vscode\extensions\ms-toolsai.jupyter-renderers-1.3.0> & C:/Users/pavit/.vscode/extensions/ms-toolsai.jupyter-renderers-1.3.0/prime.py
enter a number:8
8 not a prime
PS C:\Users\pavit\.vscode\extensions\ms-toolsai.jupyter-renderers-1.3.0>
```

2. Write a program to find the largest number in a list.

A screenshot of the Visual Studio Code interface. The code editor shows a Python file named 'largest-num.py' with the following content:

```
largest-num.py > ...
1 L=[1,2,3,4,5,6,7,8,9]
2 largest_num = L[0]
3 for number in L:
4     if number>largest_num:
5         largest_num=number
6 print(" largest element is:",largest_num)
```

The terminal tab at the bottom shows the output of running the script:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\pavit\.vscode\extensions\ms-toolsai.jupyter-renderers-1.3.0> & C:/Users/pavit/.vscode/extensions/ms-toolsai.jupyter-renderers-1.3.0/largest-num
largest element is: 9
PS C:\Users\pavit\.vscode\extensions\ms-toolsai.jupyter-renderers-1.3.0>
```

3. Create a calculator using Python functions.

```
calculator.py > ...
1  print("two number below")
2  a=int(input("enter first number:"))
3  b= int(input("enter second number;"))
4  ch=0
5  while ch<5:
6      print("cacalculator menu")
7      print(" 1.add")
8      print("2.subtract")
9
10     ch=int(input("enter choice:"))
11     if ch==1:
12         c=a+b
13         print("sum:",c)
14     elif ch==2:
15         c=a-b
16         print("difference;",c)
17     else:
18         print(" wrong")
19
20
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Users/pavit/.vscode/extensions/ms-toolsai.jupyter-renderers-1.3.0
two number below
enter first number:10
enter second number;4
cacalculator menu
1.add
2.subtract
enter choice:2
difference; 6
cacalculator menu
1.add
2.subtract
enter choice:1
```

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4. Write a program to count vowels in a string.

```
largest-num.py > ...
1 s=input("enter string:")
2 vowels="aeiouAEIOU"
3 count=0
4 for char in s:
5     if char in vowels:
6         count+=1
7         print("num of vowels:",count)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pavit\vscode\extensions\ms-toolsai.jupyter-renderers-1.3.0> & C:/Users/pavit/.vscode/extensions/ms-toolsai.jupyter-renderers-1.3.0/largest-num.py
enter string:list
num of vowels: 1
PS C:\Users\pavit\vscode\extensions\ms-toolsai.jupyter-renderers-1.3.0>
```

5. Write a Python program to read and write files.

```
text read.py > ...
1 file=open("example.txt","r")
2 file.write(" hello team")
3
4 file.close()
5 |
```