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ROLL NO:B68

Q1.

```
def mountain(lst):  
    if len(lst) < 3:  
        return False  
  
    i = 0  
    while i < len(lst) - 1 and lst[i] < lst[i + 1]:  
        i += 1  
  
    j = len(lst) - 1  
    while j > 0 and lst[j - 1] > lst[j]:  
        j -= 1  
  
    return i == j and i != 0 and j != len(lst) - 1  
  
print(mountain([1,2,3,2,1]))  
print(mountain([1,2,3]))  
print(mountain([3,3,4,2,1]))
```

Go Run Terminal Help

ise1q1.py U

program > PYTHON GIT > ise1q1.py

```
1 def mountain(lst):
2     if len(lst) < 3:
3         return False
4
5
6     i = 0
7     while i < len(lst) - 1 and lst[i] < lst[i + 1]:
8         i += 1
9
10
11     j = len(lst) - 1
12     while j > 0 and lst[j - 1] > lst[j]:
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Code + -

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.

- PS E:\NIKHIL\PYTHON> python -u "e:\NIKHIL\PYTHON\program\PYTHON GIT\ise1q1.py"

```
True
False
False
```

- PS E:\NIKHIL\PYTHON>

Python extension loading...

Ln 20, Col 29 Spaces: 4 UTF-8 CRLF Python Prettier

12:11 PM 3/29/2023

Q2.

```
def find_vi(string):
```

```
    vowels = "aeiouAEIOU"
```

```
    indices = []
```

```
    for i, char in enumerate(string):
```

```
        if char in vowels:
```

```
            indices.append(i)
```

```
    return indices
```

```
print("output=",find_vi("Elephant"))
```

```
print("output=",find_vi("Gypsy"))
```

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists several Python files, with 'ise1q1.py' selected. The main editor displays the code for 'ise1q1.py', which defines a function 'find_vi' that finds the indices of vowels in a string. The code includes comments and uses 'enumerate' and 'append' methods. The output of the script is shown in the Terminal pane at the bottom, which displays the results of running 'python -u "e:\NIKHIL\PYTHON\program\PYTHON GIT\ise1q1.py"'. The output shows 'output= [0, 2, 5]' for 'Elephant' and 'output= []' for 'Gypsy'. The status bar at the bottom indicates the current file is 'main*', the Python extension is loading, and the editor is using UTF-8 encoding with CRLF line endings.

```
File Edit Selection View Go Run Terminal Help
EXPLORER
PYTHON
fact.py U
fatorial.py U
Fibonesis_seri... U
finallexam.py U
first.py
firstprg.py
guitest.py U
identity_oprat... U
insertlist.py U
ise1q1.py U
keywords.py U
math.py U
mathmat.py
MathOper.py
membership_... U
Method_Over... U
MTAPrepare.py U
nii2.png U
nikhil.py

PROGRAM > PYTHON GIT > ise1q1.py
1 def find_vi(string):
2     vowels = "aeiouAEIOU"
3     indices = []
4     for i, char in enumerate(string):
5         if char in vowels:
6             indices.append(i)
7     return indices
8     print("output=",find_vi("Elephant"))
9     print("output=",find_vi("Gypsy"))
10
11

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for comp
atibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.
• PS E:\NIKHIL\PYTHON> python -u "e:\NIKHIL\PYTHON\program\PYTHON GIT\ise1q1.py"
output= [0, 2, 5]
output= []
○ PS E:\NIKHIL\PYTHON>

Ln 11, Col 1 (265 selected) Spaces: 4 UTF-8 CRLF Python Prettier
main* Python extension loading... 12:20 PM 3/29/2023
```