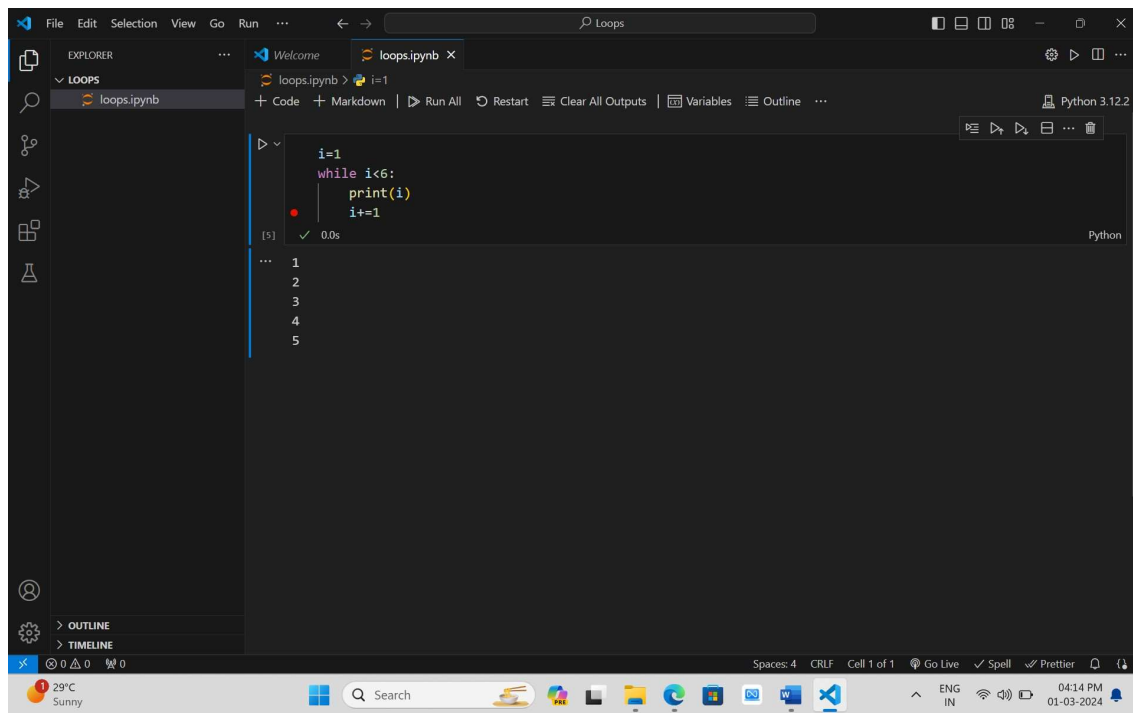


1:

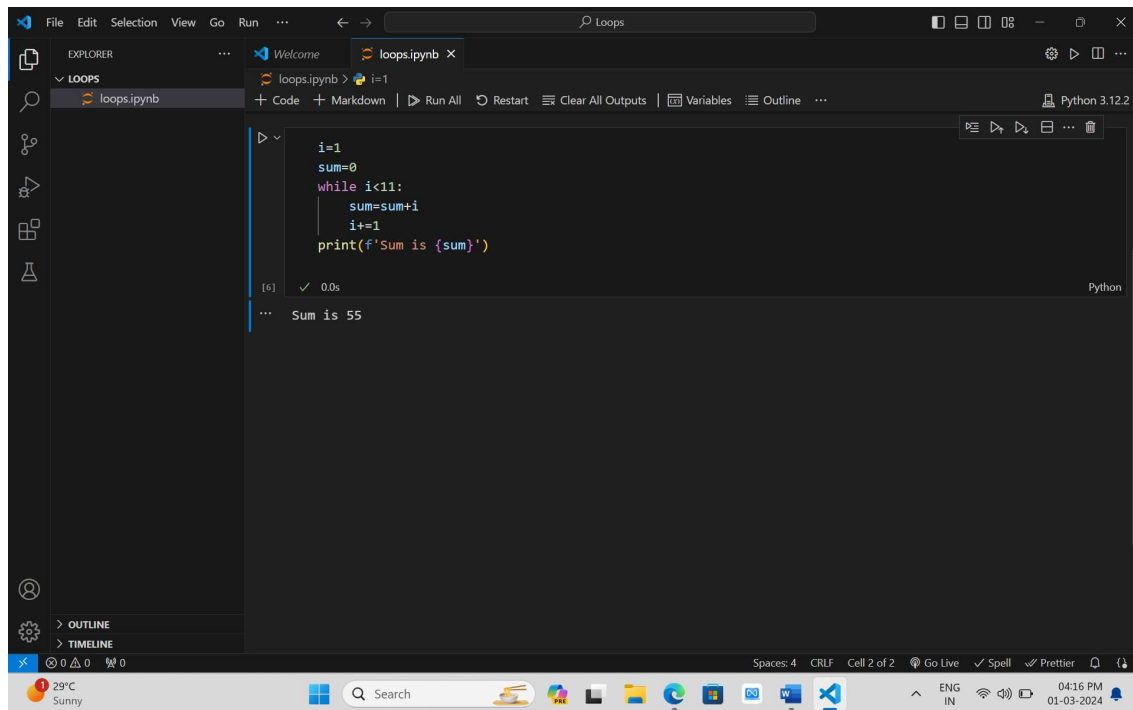


The screenshot shows a Jupyter Notebook titled 'loops.ipynb' in the Visual Studio Code editor. The code in the first cell is a while loop that prints numbers from 1 to 5. The output of the cell shows the numbers 1, 2, 3, 4, and 5 printed on separate lines. The status bar at the bottom indicates 'Python 3.12.2' and 'Spaces: 4 CRLF Cell 1 of 1'.

```
i=1
while i<6:
    print(i)
    i+=1
```

1
2
3
4
5

2:



The screenshot shows a Jupyter Notebook titled 'loops.ipynb' in the Visual Studio Code editor. The code in the first cell is a while loop that calculates the sum of numbers from 1 to 10. The output of the cell shows 'Sum is 55'. The status bar at the bottom indicates 'Python 3.12.2' and 'Spaces: 4 CRLF Cell 2 of 2'.

```
i=1
sum=0
while i<11:
    sum=sum+i
    i+=1
print(f'Sum is {sum}')
```

Sum is 55

3:

The screenshot shows a Jupyter Notebook titled 'loops.ipynb' in a dark-themed VS Code editor. The code in the cell is as follows:

```
a=int(input("enter a no.: "))
mul=1
for i in range(1,a+1):
    mul=mul*i
print(mul)
```

The output of the cell is 120, indicating that the input number was 5. The status bar at the bottom shows 'Python 3.12.2' and various icons for file operations and settings.

4:

The screenshot shows a Jupyter Notebook titled 'loops.ipynb' in a dark-themed VS Code editor. The code in the cell is as follows:

```
name = input("Enter a string: ")
vowel_count = 0
for char in name:
    if char.lower() in "aeiou" or char.upper() in "AEIOU":
        vowel_count += 1
print(f"The number of vowels in '{name}' is: {vowel_count}")
```

The output of the cell is 'The number of vowels in 'SUDHIR' is: 2', indicating that the input string was 'SUDHIR'. The status bar at the bottom shows 'Python 3.12.2' and various icons for file operations and settings.

5:

The screenshot shows a Jupyter Notebook titled 'loops.ipynb' in the Visual Studio Code editor. The code in the notebook is as follows:

```
row=int(input("enter no. of rows: "))
col=int(input("enter no. of col: "))
for i in range(row):
    for j in range(col):
        if i<=j:
            print("X", end=" ")
        else:
            print(" ",end=" ")
    print()
```

The output of the program is a pattern of 'X' characters. The first row has 1 'X', the second row has 2 'X's, and so on, up to 5 rows. The pattern is as follows:

```
****
***
**
*

```

The status bar at the bottom indicates the file is 'loops.ipynb', the language is 'Python', and the version is 'Python 3.12.2'. The system tray at the bottom shows the date as '01-03-2024' and the time as '04:42 PM'.

6:

The screenshot shows a Jupyter Notebook titled 'loops.ipynb' in the Visual Studio Code editor. The code in the notebook is as follows:

```
a=int(input("enter integer of which u want to print table: "))
for i in range(1,11):
    print(f'{a} x {i} = {a*i}')
```

The output of the program is a multiplication table for the number 4. The output is as follows:

```
4 x 1 = 4
4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
4 x 5 = 20
4 x 6 = 24
4 x 7 = 28
4 x 8 = 32
4 x 9 = 36
4 x 10 = 40
```

The status bar at the bottom indicates the file is 'loops.ipynb', the language is 'Python', and the version is 'Python 3.12.2'. The system tray at the bottom shows the date as '01-03-2024' and the time as '04:46 PM'.