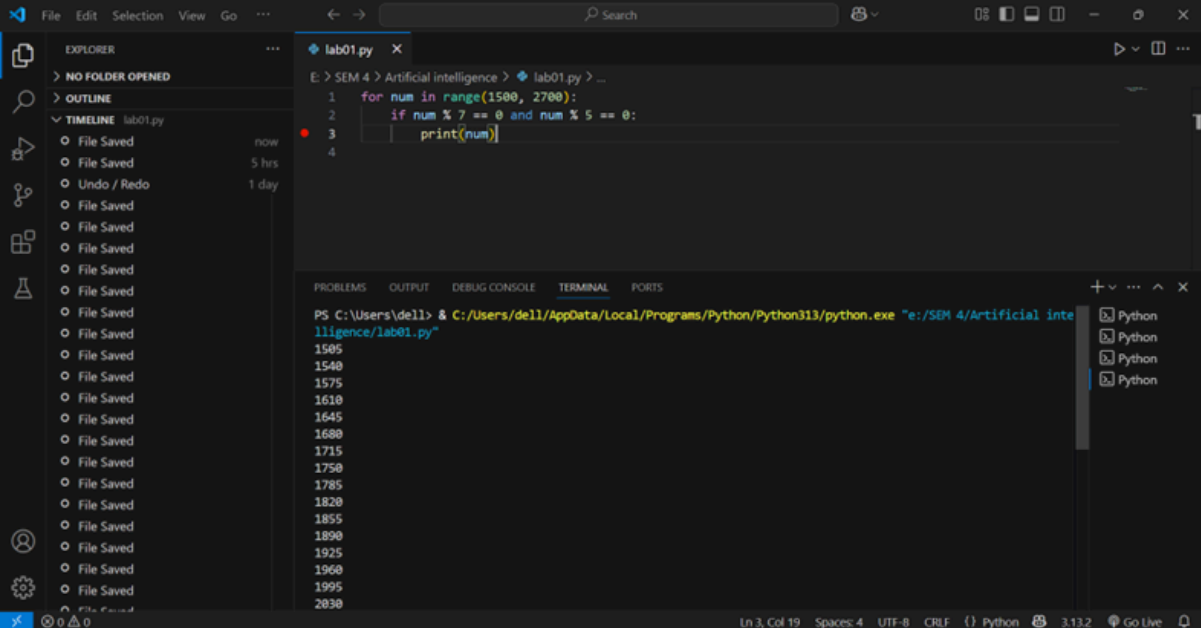


Question no 1:

Write a python program to find those numbers which are divisible by 7 and are multiple of 5, between 1500 and 2700(both included)



The screenshot shows a Python IDE with a file named 'lab01.py' open. The code in the editor is as follows:

```
1 for num in range(1500, 2700):
2     if num % 7 == 0 and num % 5 == 0:
3         print(num)
4
```

The terminal output shows the following numbers: 1505, 1540, 1575, 1610, 1645, 1680, 1715, 1750, 1785, 1820, 1855, 1890, 1925, 1960, 1995, 2030.

Question no:2

Write a python program to convert temperature to and from celsius and fahrenheit.

[Formula: $c/5 = f - 32/9$ where c =temperature in Celsius and f =temperature in Fahrenheit]

Expected Output:

60 degree celsius is 140 in fahrenheit
45 degree fahrenheit is 7 in celsius

The screenshot shows the Visual Studio Code editor with a file named `lab01.py` open. The Explorer sidebar on the left shows a list of 'File Saved' events. The main editor area contains the following Python code:

```
1 def celtofah(c):
2     return int(c * 9 / 5) + 32
3
4
5 def fahctocel(f):
6     return int(5 * (f - 32) / 9)
7
8
9 print("1. Celsius to Fahrenheit conversion")
10 print("2. Fahrenheit to Celsius conversion")
11
12 user_input = int(input("Enter your choice: "))
13
14 if user_input == 1:
15     print("Result:", celtofah(60))
16 elif user_input == 2:
17     print("Result:", fahctocel(45))
18 else:
19     print("Invalid input. Give the input again.")
20
```

The bottom panel shows the TERMINAL output:

```
PS C:\Users\dell> & C:/Users/dell/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
1. Celsius to Fahrenheit conversion
2. Fahrenheit to Celsius conversion
Enter your choice: 1
```

Question no:3

Write a python program to guess a number between 1 to 9. Note: User is prompted to enter a guess. If the user is wrong then the prompt appears again until the guess is correct. On successful guess, user will receive a "Well guessed!" message, and the program will exit.

The screenshot shows the Visual Studio Code editor with a file named `lab01.py` open. The Explorer sidebar on the left shows a list of 'File Saved' events. The main editor area contains the following Python code:

```
1 import random
2 num = random.randint(1, 10)
3 print(num)
4 input_num = int(input("enter a number"))
5 while num == input_num:
6     print("Well guessed")
7     break
8 else:
9     print("try again")
10
```

The bottom panel shows the TERMINAL output:

```
PS C:\Users\dell> & C:/Users/dell/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
9
enter a number8
try again
PS C:\Users\dell>
```

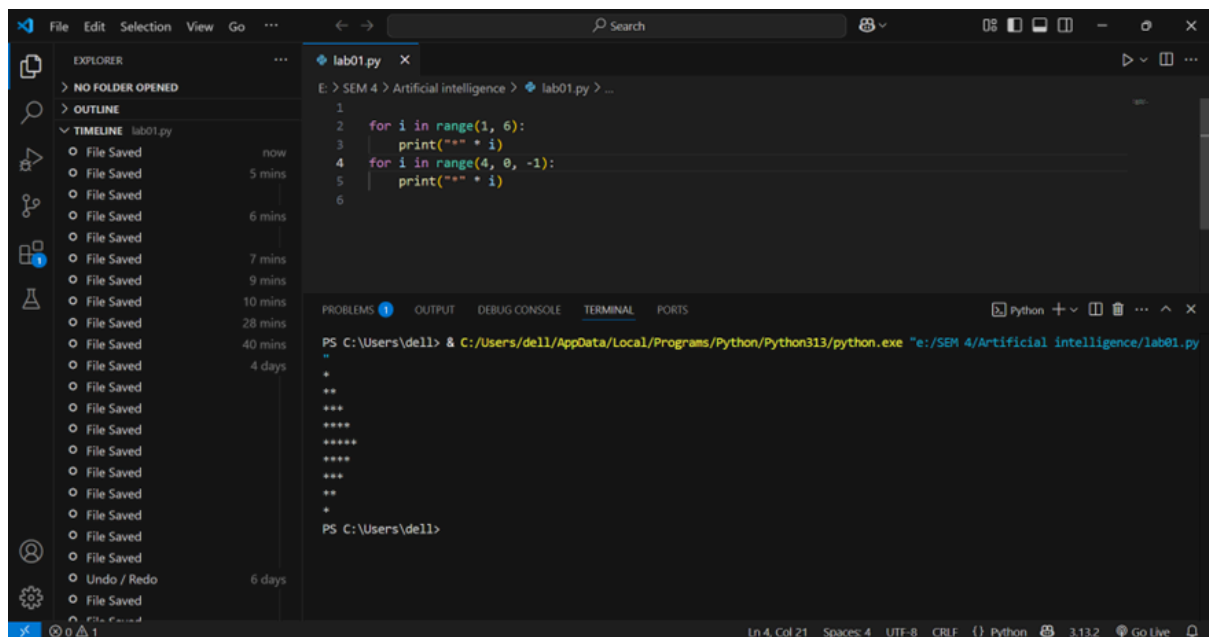
Question no:4

Write a python program to construct the following pattern,using a nested for loop.

```

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* *
* * *
* * * *
* * * * *
* * * * *
* * * *
* * *
* *
*

```



Question no:5

Write a python program that accepts a word from user and reverse it.

The screenshot shows the Visual Studio Code editor with a file named `lab01.py` open. The code in the editor is as follows:

```
1 word = input("Enter the number ")
2 reverse_word = word[::-1]
3 print("reversed word", reverse_word)
4
```

The left sidebar shows the Explorer and Timeline views. The Explorer view indicates that no folder is opened. The Timeline view shows a series of "File Saved" events. The bottom panel shows the Terminal with the following output:

```
PS C:\Users\deli> & C:/Users/dell/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
Enter the number horse
reversed word esroh
PS C:\Users\deli>
```

Question no:6

Write a python program to count the number of even and odd numbers from a series of numbers.

The screenshot shows the Visual Studio Code editor with a file named `lab01.py` open. The code in the editor is as follows:

```
1 nums = [1, 2, 3, 4, 5, 6, 7, 8]
2 count = 0
3 for i in nums:
4     if i % 2 == 0:
5         count += 1
6
7 print(count)
8
```

The left sidebar shows the Explorer and Timeline views. The Explorer view indicates that no folder is opened. The Timeline view shows a series of "File Saved" events. The bottom panel shows the Terminal with the following output:

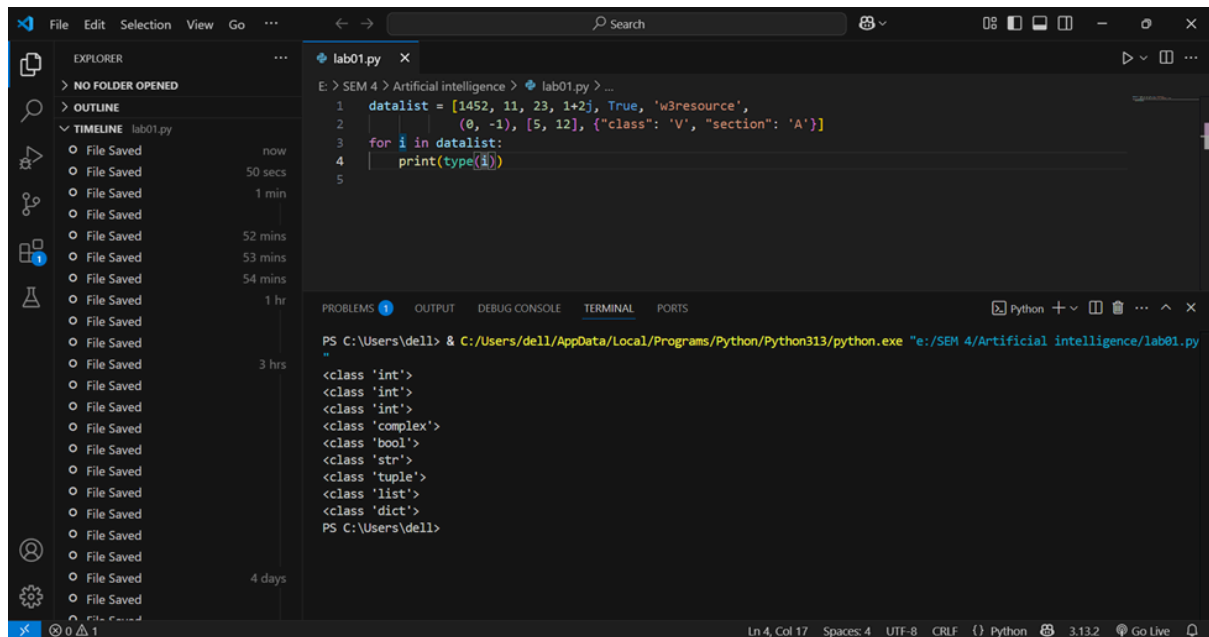
```
PS C:\Users\deli> & C:/Users/dell/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
4
PS C:\Users\deli>
```

Question no:7

Write a python program that prints each item and its corresponding type from the following list.

Sample

List:[1452,11.23,1+2j,True,'w3resource',(0,-1),[5,12],
{“class:’V’,”Section:’A’}]



The screenshot shows a Python IDE with a file named `lab01.py`. The code defines a list `datalist` containing various data types: integers, a float, a complex number, a boolean, a string, a tuple, a list, and a dictionary. A loop iterates over each element in the list, printing its type. The output in the terminal shows the type of each element: `<class 'int'>`, `<class 'float'>`, `<class 'complex'>`, `<class 'bool'>`, `<class 'str'>`, `<class 'tuple'>`, `<class 'list'>`, and `<class 'dict'>`.

```
1 datalist = [1452, 11.23, 1+2j, True, 'w3resource',  
2           (0, -1), [5, 12], {"class": 'V', "section": 'A'}]  
3 for i in datalist:  
4     print(type(i))  
5
```

```
PS C:\Users\dell> & C:/Users/dell/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"  
<class 'int'>  
<class 'float'>  
<class 'complex'>  
<class 'bool'>  
<class 'str'>  
<class 'tuple'>  
<class 'list'>  
<class 'dict'>  
PS C:\Users\dell>
```

Question no:8

Write a python program that prints all the numbers from 0 to 6 except 3 and 6.

Note: Use 'continue' statement

Expected output: 0 1 2 4 5

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a file named 'lab01.py'. The main editor area displays the following Python code:

```
1 for num in range(7):
2     if num == 3 or num == 6:
3         continue
4
5     print(num)
6
```

The TERMINAL panel at the bottom shows the command prompt output:

```
PS C:\Users\de11> & C:/Users/de11/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
0
1
2
4
5
PS C:\Users\de11>
```

Question no:9

Write a python program to get the Fibonacci series between 0 to 50.

The screenshot shows the VS Code editor with a file named `lab01.py` open. The code is a Python script that calculates the Fibonacci sequence. It initializes `first = 0` and `second = 1`, prints them, and then enters a `while True` loop. Inside the loop, it calculates `next_num = first + second`, checks if `next_num > 50` to break, and if `next_num >= 2`, it prints `next_num`. It then updates `first = second` and `second = next_num`. The terminal shows the output of the script, which is the Fibonacci sequence up to 34.

```
1 first = 0
2 second = 1
3 print(first)
4 print(second)
5
6 while True:
7     next_num = first + second
8     if next_num > 50:
9         break
10    if next_num >= 2:
11        print(next_num)
12    first = second
13    second = next_num
14
```

```
PS C:\Users\deli> & C:/Users/dell/AppData/Local/Programs/Python/Python313/python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
0
1
2
3
5
8
13
21
34
PS C:\Users\deli>
```

The screenshot shows the VS Code editor with a file named `lab01.py` open. The code is a Python script that implements the FizzBuzz problem. It uses a `for` loop to iterate from 1 to 51. Inside the loop, it checks if the number is divisible by 3 and 5, and prints "fizzbuzz", "Fizz", "buzz", or the number itself. The terminal shows the output of the script, which is the FizzBuzz sequence up to 14.

```
1 for i in range(1, 51):
2
3     if i % 3 == 0 and i % 5 == 0:
4         print("fizzbuzz")
5     elif i % 3 == 0:
6         print("Fizz")
7
8     elif i % 5 == 0:
9         print("buzz")
10    else:
11        print(i)
12
```

```
=
1
2
Fizz
4
buzz
Fizz
7
8
Fizz
buzz
11
Fizz
13
14
```

Question no: 10

Write a python program which takes two digits m(row) and n(columns) as input and generates a two dimensional array. The element value in the i-th row and j-th column of the array should be $i*j$.

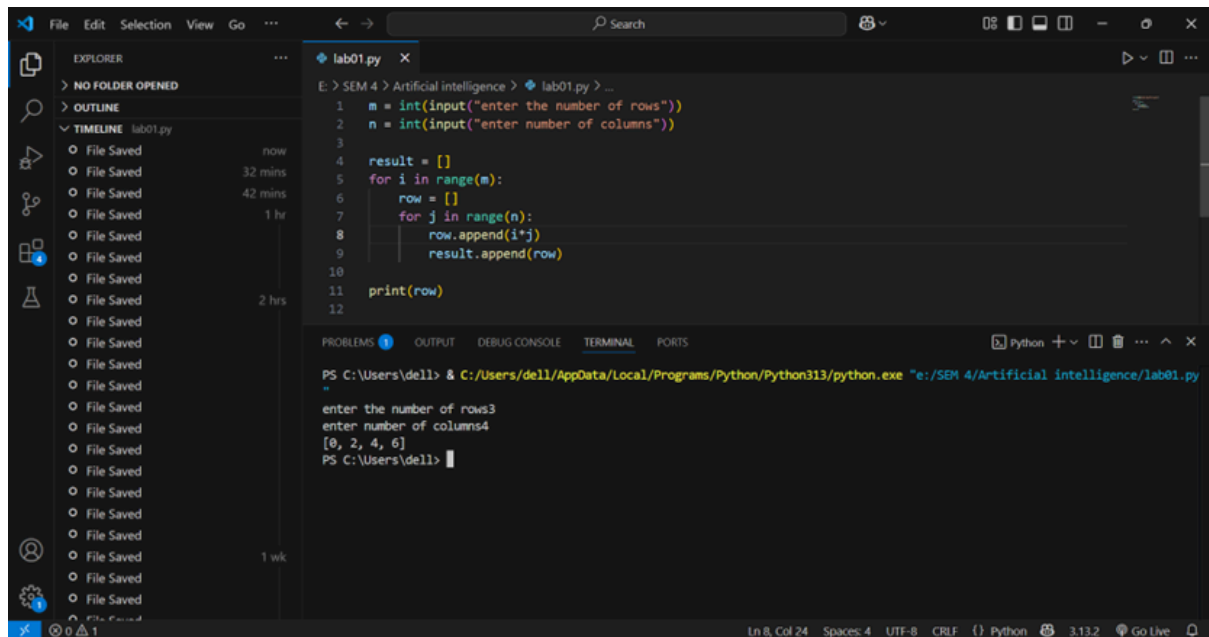
Note:

$i=0,1,\dots,m-1$

$j=0,1,\dots,n-1$

Test Data: Rows=3, Columns=4

Expected output: $[[0,0,0,0],[0,1,2,3],[0,2,4,6]]$



The screenshot shows a Python IDE with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code in the editor is as follows:

```
1 m = int(input("enter the number of rows"))
2 n = int(input("enter number of columns"))
3
4 result = []
5 for i in range(m):
6     row = []
7     for j in range(n):
8         row.append(i*j)
9     result.append(row)
10
11 print(row)
12
```

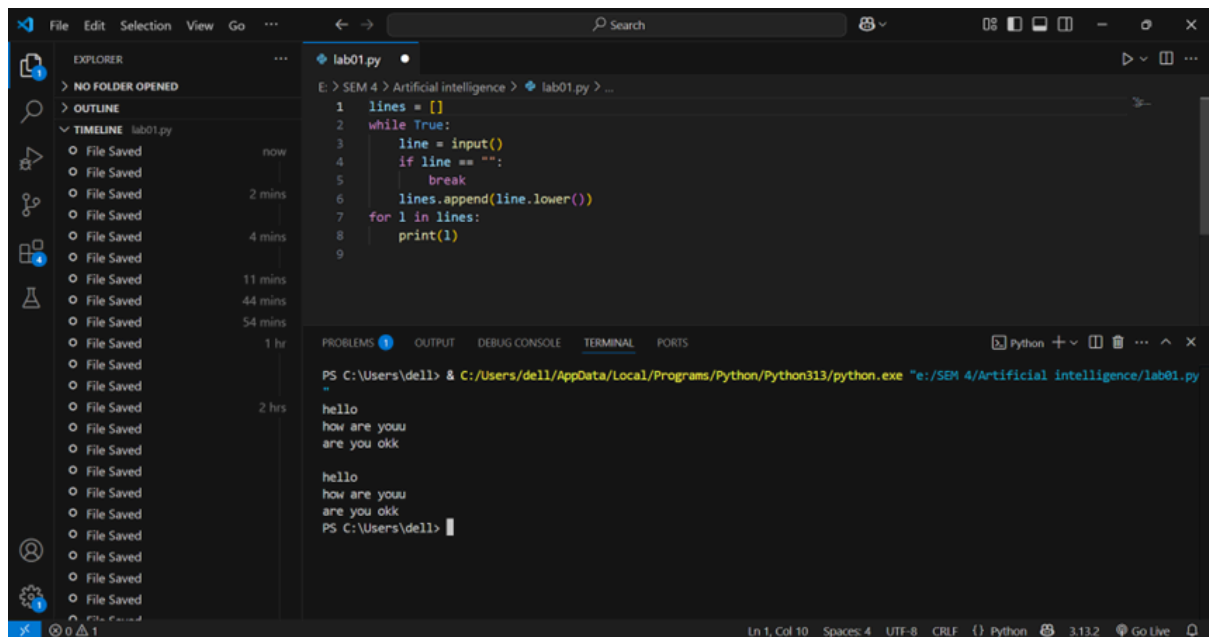
The terminal shows the execution of the program with the following input and output:

```
PS C:\Users\deli> & C:\Users\deli\AppData\Local\Programs\Python\Python313\python.exe "e:/SEM 4/Artificial intelligence/lab01.py"
enter the number of rows3
enter number of columns4
[0, 2, 4, 6]
PS C:\Users\deli>
```

Question no:11

Write a python program that accepts a sequence of lines (blank line to terminate)

As input and prints the lines as output(all characters in lower case)

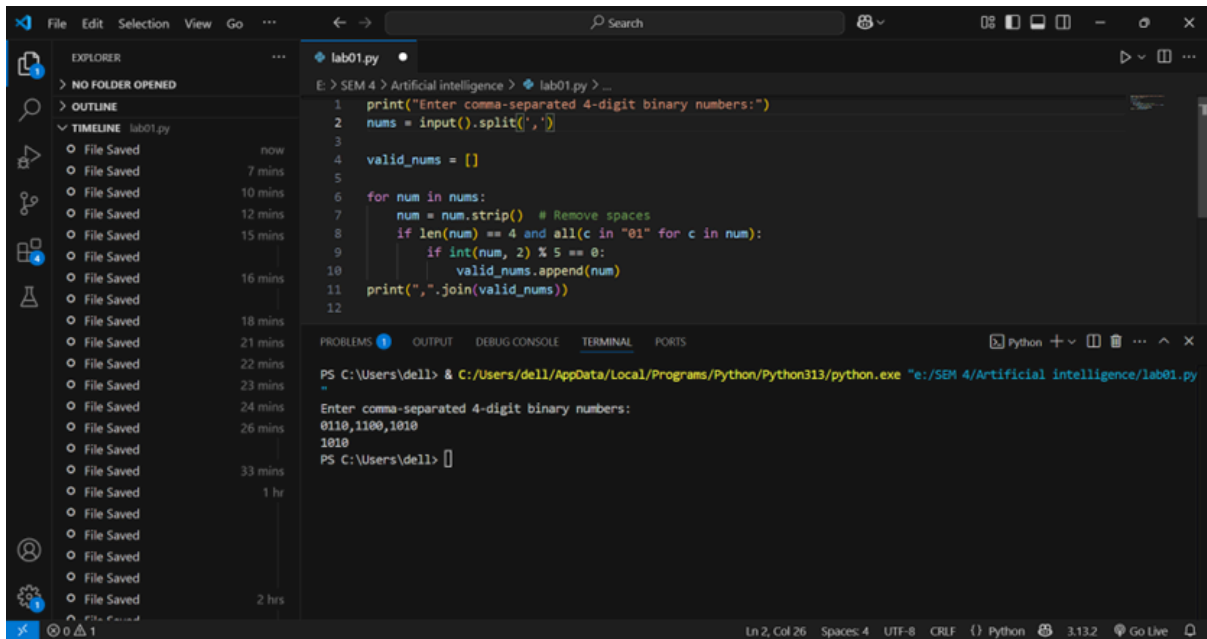


Question no:12

Write a python program which accepts a sequence of comma separated 4 digit binary numbers as its input and print the numbers that are divisible by 5 in a comma separated sequence.

Sample data:0100,0011,1010,1001,1100,1001

Expected Output:1010



Question no:13

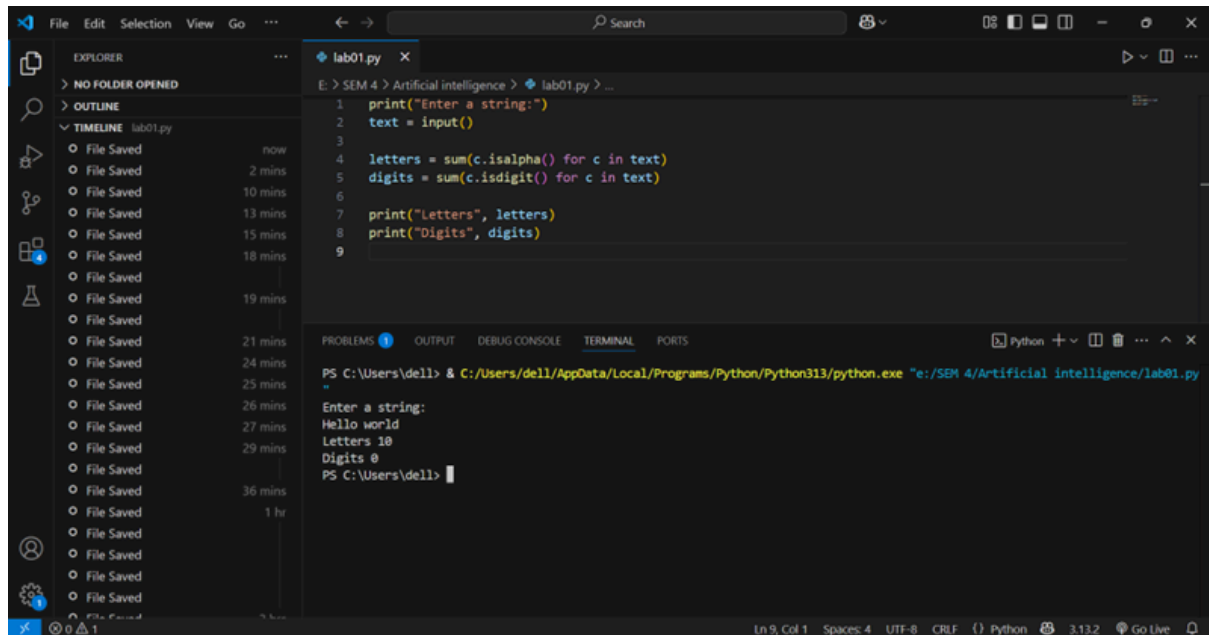
Write a python program that accepts a string and calculate the number of digits and letters.

Sample data: Python 3.2

Expected Output:

Letters 6

Digits 2



Question no:14

Write a python program to check the validity of password input by users.Validation:

At least 1 letter between[a-z] and 1 letter between[A-Z]

At least 1 number between[0-9]

Minimum length 6 characters

Maximum length 16 characters

```
def validate_password(password):  
    # Check if length is between 6 and 16 characters  
    if len(password) < 6 or len(password) > 16:  
        return "Password must be between 6 and 16 characters."  
  
    # Check for at least one lowercase letter  
    if not any(c.islower() for c in password):  
        return "Password must contain at least one lowercase letter."  
  
    # Check for at least one uppercase letter  
    if not any(c.isupper() for c in password):  
        return "Password must contain at least one uppercase letter."  
  
    # Check for at least one number  
    if not any(c.isdigit() for c in password):  
        return "Password must contain at least one number."  
  
    # If all checks are passed  
    return "Password is valid."
```

No issues found

Ln: 30 Ch: 1 SPC

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