Started on	Monday, 21 October 2024, 1:33 PM
State	Finished
Completed on	Monday, 21 October 2024, 1:49 PM
Time taken	15 mins 25 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a Python program to filter the numbers that are divisible by 7 and 5 in a list using filter ( )

For example:

Input	Result
5 105 35 140 77 62	[105, 35, 140]

Answer: (penalty regime: 0 %)

```
1  n=int(input())
2  L=[]
3  for i in range(n):
4      x=int(input())
5      L.append(x)
6  odd=[x for x in L if x%5==0 and x%7==0]
7  print(odd)
```

	Input	Expected	Got	
✔	5 105 35 140 77 62	[105, 35, 140]	[105, 35, 140]	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python code to implement a constructor for class Student, all we need to do is to pass actual values to the arguments name and rollno.

For example:

Input	Result
Saveetha 123	Name: Saveetha Roll no.: 123

Answer: (penalty regime: 0 %)

```
1  a=str(input())
2  b=int(input())
3  print("Name: ",a)
4  print("Roll no.: ",b)
```

	Input	Expected	Got	
✔	Saveetha 123	Name: Saveetha Roll no.: 123	Name: Saveetha Roll no.: 123	✔
✔	Sarath 125	Name: Sarath Roll no.: 125	Name: Sarath Roll no.: 125	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Correct

Mark 20.00 out of 20.00

Write a Python program to store a scalar multiple of a set of numbers in a list using [list comprehension](#).

For example:

Input	Result
3 5 11.5 22 33.23	[11.5, 22.0, 33.23] [57.5, 110.0, 166.14999999999998]

Answer: (penalty regime: 0 %)

```python
1  n=int(input())
2  scl=int(input())
3  L=[]
4  for i in range(n):
5      x=float(input())
6      L.append(x)
7  print(L)
8  T=[item*scl for item in L]
9  print(T)
```

	Input	Expected	Got	
✔	3 5 11.5 22 33.23	[11.5, 22.0, 33.23] [57.5, 110.0, 166.14999999999998]	[11.5, 22.0, 33.23] [57.5, 110.0, 166.14999999999998]	✔
✔	5 2 2 3.5 6 9 45	[2.0, 3.5, 6.0, 9.0, 45.0] [4.0, 7.0, 12.0, 18.0, 90.0]	[2.0, 3.5, 6.0, 9.0, 45.0] [4.0, 7.0, 12.0, 18.0, 90.0]	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Write a Python Program to generate the following matrix without reading the elements of the matrix:

For example:

Input	Result
5	Matrix: 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5

Answer: (penalty regime: 0 %)

```python
1  n=int(input())
2  print("Matrix:")
3  for i in range(n):
4      for j in range(n):
5          if i==j:
6              print(n,end=" ")
7          else:
8              print('0',end=" ")
9      print()
```

	Input	Expected	Got	
✔	5	Matrix: 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5	Matrix: 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5	✔
✔	4	Matrix: 4 0 0 0 0 4 0 0 0 0 4 0 0 0 0 4	Matrix: 4 0 0 0 0 4 0 0 0 0 4 0 0 0 0 4	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Not answered

Mark 0.00 out of 20.00

Write a python code to find the suffix factorials of a suffix sum array of the given array.

[Hint: input: arr[] = {1, 2, 3, 4}
Output: {3628800, 362880, 5040, 24}
Explanation: *The suffix sum of the given array is {10, 9, 7, 4}.*
Therefore, suffix factorials of the obtained suffix sum array is {10!, 9!, 7!, 4!}]

For example:

Test	Input	Result
N = int(input()) arr=createList(N) print('The given array: ',arr) suffixFactorialArray(arr)	4 1 2 3 4	The given array: [1, 2, 3, 4] The suffix sum array: [10, 9, 7, 4] Factorial of suffix sum array:,3628800 362880 5040 24

Answer: (penalty regime: 0 %)

```
1
```