Started on Thursday, 3 October 2024, 11:10 AM

State Finished

Completed on Thursday, 3 October 2024, 11:46 AM

 Time taken
 35 mins 53 secs

 Grade
 80.00 out of 100.00

Question 1
Correct
Mark 20.00 out of 20.00

Write a Python program to find the square of all elements in a list using <u>list comprehension</u>

For example:

Result
[11, 22, 33]
[121, 484, 1089]

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
*	3 11 22 33	[11, 22, 33] [121, 484, 1089]	[11, 22, 33] [121, 484, 1089]	~
~	5 2 3 6 9 45	[2, 3, 6, 9, 45] [4, 9, 36, 81, 2025]	[2, 3, 6, 9, 45] [4, 9, 36, 81, 2025]	*

Passed all tests! 🗸

Marks for this submission: 20.00/20.00.

```
Question 2

Correct

Mark 20.00 out of 20.00
```

Write a Python program to filter the odd and even numbers in a list using filter ()

For example:

Input	Result		
5	[34,	24]	
34	[57,	89,	11]
57			
89			
24			
11			

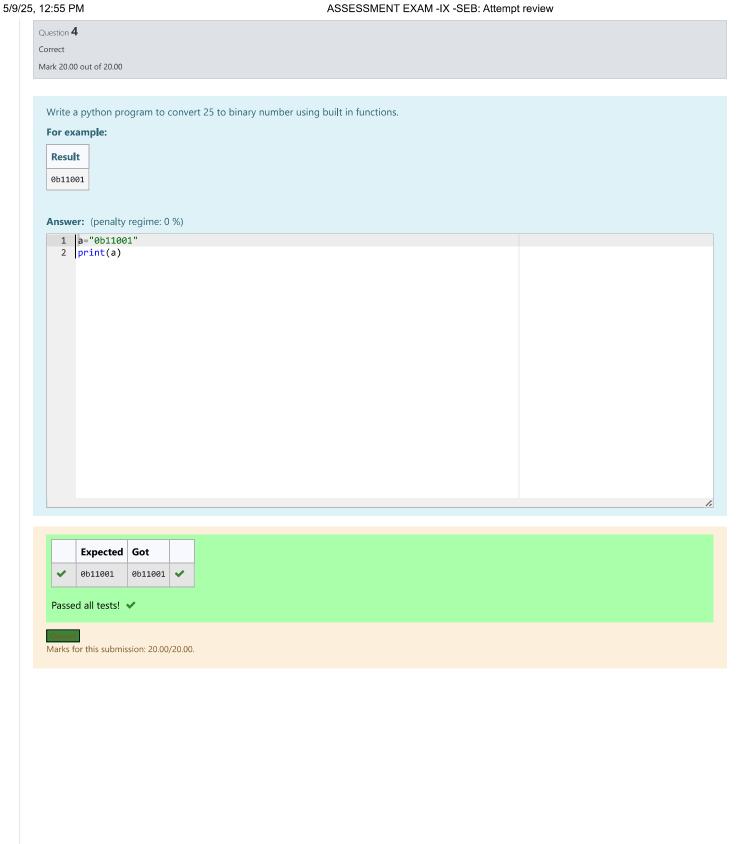
Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	5	[34, 24]	[34, 24]	~
	34	[57, 89, 11]	[57, 89, 11]	
	57			
	89			
	24			
	11			

Passed all tests! 🗸

Marks for this submission: 20.00/20.00.

```
Question \bf 3
Not answered
Mark 0.00 out of 20.00
  Write the Python code to find the count of all sub-arrays whose sum is divisible by K from the given array.
  Input:
  arr[] = [4, 5, 0, -2, -3, 1]
              K = 5
  Output : 7
  Explanation:
 // there are 7 sub-arrays whose sum is divisible by K
// {4, 5, 0, -2, -3, 1}
// {5}
// {5, 0}
// {5, 0, -2, -3}
// {0}
// {0, -2, -3}
  // {-2, -3}
  Answer: (penalty regime: 0 %)
  1
```



```
Question 5
Correct
Mark 20.00 out of 20.00
```

Write a Python Program to find the product of two matrices. Check the condition to multiply two matrices, if the condition is false, print "Cannot Multiply"

For example:

Input	Result
2 3	Matrix:
1 1 2	1 1 2
2 3 1	2 3 1
3 2	Matrix:
2 4	2 4
1 2	1 2
3 5	3 5
	Matrix:
	9 16
	10 19

Answer: (penalty regime: 0 %)

```
1 def read_matrix(r,c):
 2
        matrix=[[0]*c for row in range(r)]
 3 ▽
        for i in range(r):
4
            lines=list(map(int,input().split()))
 5 ,
            for j in range(c):
 6
                matrix[i][j]=lines[j]
 7
        return matrix
8 def print_matrix(M):
9
        print("Matrix:")
10 🔻
        for i in range(len(M)):
             for j in range(len(M[0])):
11 1
12
                 print(M[i][j],end=" ")
            print()
13
14 def product(M,N):
15
        C=[[0]*len(N[0]) for i in range(len(M))]
        for i in range(len(M)):
16 🔻
            for j in range(len(N[0])):
   for k in range(len(N)):
17 1
18 🔻
19
                     C[i][j]=C[i][j]+M[i][k]*N[k][j]
20
        return C
   r1,c1=input().split()
21
22 M=read_matrix(int(r1),int(c1))
```

	Input	Expected	Got	
*	2 3 1 1 2 2 3 1 3 2 2 4 1 2	Matrix: 1 1 2 2 3 1 Matrix: 2 4 1 2	Matrix: 1 1 2 2 3 1 Matrix: 2 4 1 2	~
	3 5	3 5 Matrix: 9 16 10 19	3 5 Matrix: 9 16 10 19	

	Input	Expected	Got		
~	3 3	Matrix:	Matrix:	~	
	1 1 1	1 1 1	1 1 1		
	1 1 1	1 1 1	1 1 1		
	1 1 1	1 1 1	1 1 1		
	3 3	Matrix:	Matrix:		
	2 2 2	2 2 2	2 2 2		
	2 2 2	2 2 2	2 2 2		
	2 2 2	2 2 2	2 2 2		
		Matrix:	Matrix:		
		6 6 6	6 6 6		
		6 6 6	6 6 6		
		6 6 6	6 6 6		
~	2 3	Cannot Multiply	Cannot Multiply	~	
	1 2 3				
	1 2 3				
	1 4				
	1 2 3 4				