QUESTIONS 104-109
LIST METHODS (BASIC)

Q104. Write a program that prompts the user to specify the length of a list and then requests numbers to populate that list. Display the final list as the output.

```
# Example
Input the length of the list: 4
Enter number = 7
Enter number = 14
Enter number = 21
Enter number = 28

Answer = [7, 14, 21, 28]
```

Q105. Create a list and prompt the user for an 'old number' followed by a 'new number.' If the 'old number' exists in the list, replace it with the 'new number' provided by the user.

```
my_list = [5, 10, 15, 20, 15]
Enter the old number: 15
Enter the new number: 25

Updated list: [5, 10, 25, 20, 25]
```

Q106. Remove all the even numbers from the list.

Q107. Ask the user for a number. Then, from a list of numbers, remove all the numbers that can be divided by the number the user entered. **(Do on your own).**

```
my_list = [10, 15, 20, 25, 30]
Enter a number: 5

# OUTPUT
[15, 25]
```

Q108. Generate a list of at least 10 numbers. Then, create two separate lists called **'odd'** and **'even.'** Put all the odd numbers from the original list into the **'odd'** list, and all the even numbers into the **'even'** list.

```
my_list =[3, 8, 12, 17, 22, 30, 35, 41, 48, 50]

# Output
Odd = [3, 17, 35, 41]
Even = [8, 12, 22, 30, 48, 50]
```

Q109. Start by creating two separate lists with random numbers. Then, create a third list that merges the numbers from the first and second lists together.

```
list1 = [5, 8, 12, 15]
list2 = [3, 10, 18, 21]

# OUTPUT
Merged list: [5, 8, 12, 15, 3, 10, 18, 21]
```