1. Find whether all elements in list are numbers or not

```
In [ ]: | n = eval(input("Enter the total number of elements: "))
        lst = []
        for i in range(n):
             x = input("Enter element [{}]:".format(i))
             1st.append(x)
        print(lst)
         ['3', '5', 'hello', 'this', 'bye']
In [ ]: | def check_num_in_lst():
             for i in lst:
                 if not i.lstrip("-").isdigit():
                     return False
             return True
        is_numerical_list = check_num_in_lst()
        print("All elements in list are numbers" if is_numerical_list else "All e
        All elements in list are not numbers
          1. If numeric list then count number of odd values in it
In [ ]: counter = 0
        if is numerical list:
```

```
In [ ]: counter = 0
   if is_numerical_list:
        for i in lst:
        if (int(i)%2 != 0):
            counter += 1
        print("There are {} odd values in the numerical list".format(counter)
```

1. if string list then display the largest string in the list

```
In [ ]: if not is_numerical_list:
    largest_string = ""
    for i in lst:
        if len(i) > len(largest_string):
             largest_string = i
        print("The largest string in the list is {}".format(largest_string))
```

The largest string in the list is hello

1. if all elements are strings then count numeric string and string with alphabets only separately

```
In [ ]: if not is_numerical_list:
    count_numeric = 0
    count_alpha = 0
    for i in lst:
        if i.isdigit():
            count_numeric += 1
        elif i.isalpha():
            count_alpha += 1
        print("{0} numeric string(s) and {1} alpha only string(s)".format(count_alpha to the following print() alpha only string(s) to the following print() alpha only string(s)
```

```
2 numeric string(s) and 3 alpha only string(s)
```

1. Create a dictionary to keep track of count of distinct elements in the list e.g. {'element1': 2,element2':3...}

```
In [ ]: my_dic = {}
    for i in lst:
        my_dic[i] = lst.count(i)
        print(my_dic)

{'3': 1, '5': 1, 'hello': 1, 'this': 1, 'bye': 1}
```