Python – Lists and its Operations

Problem Sheet – Python Lists

- **Prepare a PDF file for submission, which should contain question, its corresponding python code and output screenshot.**

1. Create a list of countries (say **country_list**). The initial list must contain names for 10 countries.

    a. Print the entire list of countries.

    b. Print the countries from index ‘0’ to last positive index.

    c. Print the countries from index ‘-1’ to last negative index.

    d. Print the name of countries, whose first letter is vowel. Eg: India, America.

    e. Check whether ‘India’ is present in **country_list** or not. Display the result clearly on the screen.

    f. Print the countries between the index [2] and [9]. Both [2] and [9] are included.

    Eg. Output Format:
    [2]: India
    [3]: America
    .
    .
    [9]: Italy

    g. Replace ‘India’ by ‘Our India’. Show this change on screen.

h. Find the length of the current **country_list** and print it on screen.

i. Add 5 more new countries to the end of the existing **country_list** and show the new list on the screen.

j. Find the length of the current **country_list** and print it on screen.

k. Add 5 more new countries to the indices [0], [2], [4], [6], [8]. Show the new list on the screen.

l. Find the length of the current **country_list** and print it on screen.

m. Print the list of countries, whose name length is less than or equal to 10 characters.
Eg: India, Italy, Sri Lanka

n. Read the choice (country name) from user and remove it from the current **country_list** using **remove ()**. Show the new list on the screen.

o. Read the choice (index) from user and remove the corresponding country using **pop().** Show the new list on the screen.

p. Using **pop()**, remove the country which is at the end of the current **country_list**. Show the new list on the screen.

q. Using **del**, remove the countries from current **country_list**, whose index values are [1], [3], [5]. Show the new list on the screen.

r. Using del, delete the current **country_list.** Show the change in screen.

2. **Read the name of 10 cars from user and add them to a list (say list_of_cars) using for loop. Print the list on the screen.**

Refer the Sample Code and Output given below.

```
a=input("Enter the name of an Actor: ")
actor_list=[a]
print("Actors list")
print(actor_list)

print("\n\n")
a=input("Enter the name of an Actor: ")
actor_list.append(a)
print("Actors list")
print(actor_list)
```

```
Enter the name of an Actor: Ajith
Actors list
['Ajith']



Enter the name of an Actor: Vijay
Actors list
['Ajith', 'Vijay']
```