

Lab 2 python

Q1- Given a list of numbers, Calculate and print the sum of the list using loops techniques. `lst=[1,2,5,6,8,3]`

Q2- Given a list of numbers, Write a Python program to print the even number of this list.
`lst=[10,11,13,12,15,20,40]`

Q3- Given 2 numbers a, b, Write a Python program to print the result of division a / b if b isn't zero and print "Error!! Division by zero" if b is zero.

Q4- Iterate over the following list, and print a new line for each element to match the following conditions: `lst = [2, 0, 3, 13, 76, 5, 8, 10, 1, 33, 42]`

- Print "Even less than 10" if the number is even and less than 10.
- Print "Even greater than 10" if the number is even and greater than 10.
- Print "Odd less than 10" if the number is odd and less than 10.
- Print "Odd greater than 10" if the number is odd and greater than 10.
- Print "Zero" if the number is zero.

Q5- Find the index of the value "76" in the following list ,

```
lst = [2, 0, 3, 13, 76, 5, 8, 10, 1, 33, 42]
```

- add this index to the end of the list,

- then sort this list

- print the list and its length.

Q6- Given the following dictionary,

```
ip_dict_ = {'first_name': 'Alan', 'age': 26, 'country': 'England'}
```

- Change the value of age to be 42
- add a key to the dictionary named "last_name" and set its value to 'Turing'
- remove the country key # print the result dictionary

Q7- Given the following set:

```
ip_set = {1, 2, 3, 7.5, 'Ali'}
```

- Then add the following numbers to the set: 6, 4, 5
- remove the element 'Ali'
- print the set

Q8- print the following half pyramid pattern of numbers

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Hacker rank

Q9- [Loop problem](#)