<u>Lab Report – 06</u>

1. Python program to find unique numbers in a given list.

<u>Code:</u>

```python
list = [1,3,3,0,1,7,5,9,5,6]

unique = []

for n in list:

    if n not in unique:

        unique.append(n)

print("Unique numbers in the list:", unique)
```

2. Python program to find sum of all numbers in a list.

<u>Code:</u>

```python
"""list = []

sum = 0

n = int(input("Enter the number of elements in the list:"))

for i in range(0,n):

    list.append(input("Enter integer:"))

    sum = sum+(i+1)

print(sum)"""
```

3. Python program to create a list of 5 random integers.

<u>Code:</u>

```
"""list = []
print("Enter 5 integers in the list")
for i in range(0,5):
    list.append(int(input("Enter integer:")))
print(list)"""
```

4. Write a program that creates a list of 10 random integers. Then create two lists by name odd_list and even_list that have all odd and even values of the list respectively.

<u>Code:</u>

```
"""list = []

even_list = []

odd_list = []

print("Enter 10 integers in the list")

for n in range(0,10):

    list.append(int(input("Enter integer:")))

for n in list:

    if n % 2 == 0:

        even_list.append(n)

    else:
```

```
        odd_list.append(n)

    print("List of even numbers\n",even_list,"\nList of odd numbers\n",odd_list)"""
```

5. Python program to remove all odd numbers from a list.

Code:

```
    """list = []

    print("Enter 10 integers in the list")

    for n in range(0,10):

        list.append(int(input("Enter integer:")))

    for n in list:

        if n % 2 == 0:

            list.append(n)

        else:

            list.remove(n)

    print("List after removing odd numbers is look like: ",list)"""
```

6. Python program to sort a list of strings on the number of alphabets in each word.

Code:

```
    """input_list = ["apple", "banana", "cherry", "date", "fig"]

    sorted_list = []

    while input_list:
```

min_length = len(input_list[0])

min_word = input_list[0]

for word in input_list:

  if len(word) < min_length:

    min_length = len(word)

    min_word = word

sorted_list.append(min_word)

input_list.remove(min_word)

print("Sorted list by the number of alphabets:", sorted_list)"""

7. Python program non-numeric items in a list in a separate list.

Code:

```
"""list = [1, 'apple', 2.5, 'banana', 3, 'cherry', 'date', 4]
non_numeric_list = []
for item in list:
    if type(item) is str:
        non_numeric_list.append(item)
print("Non-Numeric Items:", non_numeric_list)"""
```

8. Python program to create a list of integers representing each character in a string.

Code:

```
"""s = 'Junaid'
list = []
for n in s:
    list.append(n)
print(list)"""
```

9. Python program to find numbers common in two lists.

Code:

```
"""l1 = [1,2,3,5,6,7]
l2 = [2,10,2,5,0,9]
l3 = []
for n in l1:
    for i in l2:
        if n == i:
            l3.append(n)
            break
print(l3)"""
```