**Lab Report – 06**

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

**Code:**

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)

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

**Code:**

"""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)"""

1. **Python program to create a list of 5 random integers.**

**Code:**

"""list = []

print("Enter 5 integers in the list")

for i in range(0,5):

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

print(list)"""

1. **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.**

**Code:**

### """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)"""

1. **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)"""

1. **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)"""

1. **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)"""

1. **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)"""

1. **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)"""