**ASSIGNMENT --2**

**LIST**

**1.**

Print the list of numbers which are divisible by 5 and multiple of 8 between 2000 and 2500  
*l=[]  
for i in range(2000,2501):  
 if i%5==0 and i%8==0:  
 l.append(i)  
print(l)*

2.Write a Python program to create the table (from 1 to 10) of a number getting input from the user

1. *a = int(input("enter number"))  
   j=0  
   for i in range(10):  
    i+=1  
    j = j+a  
    print(i ,'\*',a,'=',j)*

3 .sort the list in ascending order and print first element

*l=[]  
a = int(input("Enter the no of elements in the list"))  
for i in range(a):  
 b = int(input("Enter the Numbers"))  
 l.append(b)  
print(sorted(l))  
print("the first element in the list is ",l[0])*

4.Python program to find second largest number in a list

*l=[]  
a = int(input("Enter the no of elements in the list"))  
for i in range(a):  
 b = int(input("Enter the Numbers"))  
 l.append(b)  
print("the second largest number in the list is ",l[-2])*

5.Python program to print odd numbers & even numbers separately in al list of [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

*l=[]  
m=[]  
for i in range(10):  
 if i%2==0:  
 l.append(i)  
 else :  
 m.append(i)  
  
print("the list of even numbers are ",l)  
print("the list of odd numbers are ",m)*

6.Program for Reversing a list

*l = []  
a = int(input("Enter the number of elements"))  
for i in range(a):  
 b = int(input("enter the inputs"))  
 l.append(b)  
print(l)  
print(l[::-1])*

7. Program to print all odd numbers from 1-50

*l=[]  
for i in range(51):  
 if i%2!=0:  
 l.append(i)  
print(l)*

8.Program to count Even and odd numbers in a list

*l=[]  
m=[]  
q=[]  
a = int(input("Enter number of elements in the list"))  
for i in range(a):  
 b = int(input("Enter the numbers"))  
 q.append(b)  
print(q)  
for j in q:  
 if j%2==0:  
 l.append(j)  
 else :  
 m.append(j)  
  
print("the list of even numbers are ",l)  
print("the list of odd numbers are ",m)  
print("number of even numbers in the list are ",len(l))  
print("number of odd numbers in the list are ",len(m))*

9. Write a python program to remove zeros from an IP address("216.08.094.196")

*a = input("Enter the IP address to remove zeros : ")  
b=a.replace("0","")  
print("New IP address without zeros is ",b)*

10. Write a Python program that matches a string that has an 'a' followed by anything, ending with ‘’s’”

import re  
  
txt = input("Enter any text")  
x = re.findall("a+\S+s",txt)  
print(x)

11. Replace all occurences of 6 with 'six' and 10 with 'ten' for the given string 'They ate 6 apples and 10 banana'

*z= input("Enter a string")  
for i in z:  
 c = z.replace("10","ten")  
 z=c  
for j in c:  
 d = z.replace("6","six")  
print("The required string is \n",d)*

12.Write a program to check whether a person is eligible for voting or not. (accept age from user)

*age = int(input("Enter your age : "))  
if age<18:  
 print(("You are minor and not eligible for voting"))  
if age >= 18:  
 print(("You are eligible for voting"))*

13. Write a program to calculate the electricity bill (accept number of unit from user) according to the following criteria :

Unit Price

First 100 units no charge

Next 100 units Rs 5 per unit

After 200 units Rs 10 per unit

(For example if input unit is 350 than total bill amount is Rs2000)

*a = int(input("Enter the no unit"))  
if a<=100 and a>=0:  
 print("Your current bill is zero rupees")  
elif a>100 and a<=200:  
 b=100\*5  
 print("Your current bill is",b ,"rupees")  
elif a>200:  
 b=200\*10  
 print("Your current bill is",b ,"rupees")  
else:  
 print("invalid")*

14.Write a program to accept percentage from the user and display the grade according to the following criteria:

Marks Grade

> 90 A

> 80 and <= 90 B

>= 60 and <= 80 C

below 60

*a = int(input("Enter Your Percentage"))  
if a>90 and a<=100:  
 print("Your Grade is A")  
elif a> 80 and a<= 90:  
 print("Your Garde is B")  
elif a >= 60 and a <= 80:  
 print("Your Garde is C")  
elif a<60 and a>=0:  
 print("Your Garde is D")  
else:  
 print("Re-enter your percentage")*