**EXPERIMENT NO -1**

#experiment 1.a\_program for constats,variables,statements expression,data type and type casting

#this is comment

'''this is

multiline comment'''

#variables

a=10;

b=20;

#statements

print('a=',a,'b=',b);

#expressions

sum=a+b;

print('addition is:',sum);

#data types

'''1-number'''

a1=25;

a2=3.25;

a3=3+4j;

print(type(a1));

print(type(a2));

print(type(a3));

'''2- list'''

a4=[10,20.13,'i love my India'];

print('a4=',a4);

print(a4[0:2]);

print('data type of a4',type(a4));

'''3-Touple'''

t = (5,'program', 1+3j)

print("t[1] = ", t[1])

print('data type of t',type(t));

'''4-string'''

s='we are the peoples of India'

print(s);

print(s[4]);

print(s[11:18]);

print('data type of s is==>',type(s));

'''5-set'''

a5= {5,2,3,1,4}

print("a5 = ", a5)

print('data type of a',type(a5));

'''6-dictinory'''

d = {1:'value','key':2}

print(type(d))

print("d[1] = ", d[1])

print("d['key'] = ", d['key']);

#type conversion or casting

'''1-Implicit type conversion'''

'''int to float'''

num\_int = 123

num\_flo = 1.23

num\_new = num\_int + num\_flo

print("datatype of num\_int:",type(num\_int))

print("datatype of num\_flo:",type(num\_flo))

print("Value of num\_new:",num\_new)

print("datatype of num\_new:",type(num\_new))

'''2-Explicit type conversion'''

num\_int = 123

num\_str = "456"

print("Data type of num\_int:",type(num\_int))

print("Data type of num\_str before Type Casting:",type(num\_str))

num\_str = int(num\_str)

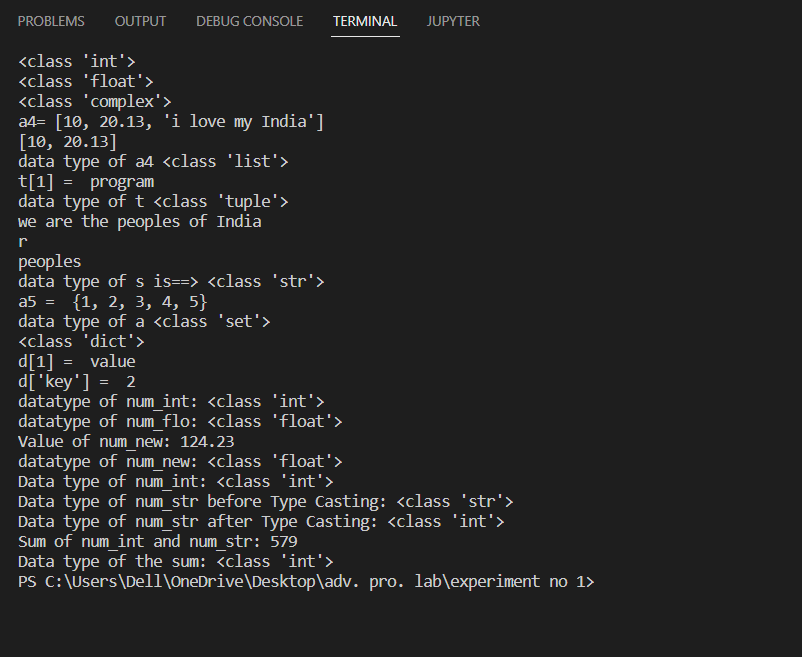
print("Data type of num\_str after Type Casting:",type(num\_str))

num\_sum = num\_int + num\_str

print("Sum of num\_int and num\_str:",num\_sum)

print("Data type of the sum:",type(num\_sum))

**OUTPUT:**

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