**HOME TASK**

**EXPERIMENT – 1**

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## Program -1

print("Hello Chandigarh University")

## Output :-

Hello Chandigarh University

## Program -2

if 5 > 2:

print("Five is greater than two!")

## Output :-

Five is greater than two

## Program -3

# Craps Roller

# Demonstrates random number generation

import random

# generate random numbers 1 - 6

# this program is for adding 2 numebers.

die1 = random.randint(1, 6)

die2 = random.randint(1, 6)

total = die1 + die2

print("You rolled a", die1, "and a", die2, "for a total of", total)

input("\n\nPress the enter key to exit.")

## Output :-

You rolled a 5 and a 1 for a total of 6

Press the enter key to exit.

## Program -4

a = 5

b = "Hello, SAHIL MAHAWER"

print(b)

print(a)

## Output :-

Hello, SAHIL MAHAWER

5

## Program -5

# This is a comment.

# ABHIJEET SINGH

# ANSHUL

# Hello

# 4

print("Chandigarh University")

## Output :-

Chandigarh University

## Program -6

print("Hello, World!")

print("Cheers, Mate!")

## Output :-

Hello, World!

Cheers, Mate!

## Program -7

x = 6

y = "John 1 "

print(x)

print(y)

## Output :-

6

John 1

## Program -8

o, b, c = "Orange", "Banana", "Cherry"

print(b)

print(o)

print(c)

## Output :-

Banana

Orange

Cherry

## Program -9

x = y = z = "Orange"

print(x)

print(y)

print(z)

## Output :-

Orange

Orange

Orange

## Program -10

x = "awesome"

def myfunc():

x = "good"

print("Python is " + x)

myfunc()

print("Python is " + x)

## Output :-

Python is good

Python is awesome

## Program -11

y = "best"

def myfunc():

print("Python is " + y)

myfunc()

## Output :-

Python is best

## Program -12

x = 10

y = 2.00

z = 3j

print(type(x))

print(type(y))

print(type(z))

## Output :-

<class 'int'>

<class 'float'>

<class 'complex'>

## Program -13

x = 1

y = 35656229048939

z = -3255522

print(type(x))

print(type(y))

print(type(z))

## Output :-

<class 'int'>

<class 'int'>

<class 'int'>

## Program -14

x = 1.10

y = 1.0

z = -35.59

print(type(x))

print(type(y))

print(type(z))

## Output :-

<class 'float'>

<class 'float'>

<class 'float'>

## Program -15

x = 1 # int

y = 2.8 # float

z = 1j # complex

#convert from int to float:

a = float(x)

#convert from float to int:

b = int(y)

#convert from int to complex:

c = int(x)

print(a)

print(b)

print(c)

print(type(a))

print(type(b))

print(type(c))

## Output :-

1.0

2

1

<class 'float'>

<class 'int'>

<class 'int'>