**HOME TASK**

**EXPERIMENT – 2**

YASH GUPTA

20BCS5009

## Program -1

x = int(1) # x will be 1

y = int(2.1) # y will be 2

z = int("33") # z will be 3

print(x)

print(y)

print(z)

## Output :-

1

2

3 3

## Program –2

# print("Hello")

print("Hi")

## Output :-

Hi

## Program –3

thistuple = ("apple", "banana", "cherry")

print(thistuple)

## Output :-

('apple', 'banana', 'cherry')

## Program –4

thistuple = ("apple", "banana", "cherry")

print(thistuple[-3])

## Output :-

apple

## Program –5

thistuple = ("apple", "banana", "cherry")

print(thistuple[-3])

## Output :-

apple

## Program –6

a = 200

b = 100

if b > a:

print("b is greater than a")

elif a == b:

print("a is equal to b")

else:

print("a is greater than b")

## Output :-

a is greater than b

## Program –7

i = 2

while i < 6:

print(i)

i += 1

## Output :-

2

3

4

5

## Program –8

i = 1

while i < 6:

print(i)

if i == 4:

break

i += 1

## Output :-

1

2

3

4

## Program –9

# Mood Computer

# Demonstrates the elif clause

import random

print("I sense your energy. Your true emotions are coming across my screen.")

print("You are...")

mood = random.randint(1, 3)

if mood == 1:

# happy

print( \

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elif mood == 2:

# neutral

print( \

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elif mood == 3:

# sad

print( \

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else:

print("Illegal mood value! (You must be in a really bad mood).")

print("...today.")

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

## Output :-

I sense your energy. Your true emotions are coming across my screen.

You are...

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Press the enter key to exit.

## Program –10

# Granted or Denied

# Demonstrates an else clause

print("Welcome to System Security Inc.")

print("-- where security is our middle name\n")

password = input("Enter your password: ")

if password == "secret":

print("Access Granted")

else:

print("Access Denied")

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

## Output :-

Welcome to System Security Inc.

-- where security is our middle name

Enter your password: 011212345

Access Denied

Press the enter key to exit.

## Program -11

# Password

# Demonstrates the if statement

print("Welcome to System Security Inc.")

print("-- where security is our middle name\n")

password = input("Enter your password: ")

if password == "HELLO":

print("Access Granted")

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

## Output:-

Welcome to System Security Inc.

-- where security is our middle name

Enter your password: HELLO

Access Granted

Press the enter key to exit.