**Day 4 Assignment**

**Q1. Python program to print Highest Common Factor (HCF) of two numbers**

Example : Take values according to you

Ans. def calc\_hcf(n1,n2):

if n1 > n2:

small = n2

else:

small = n1

for i in range(1,small + 1):

if((n1 % i == 0) and (n2 % i == 0)):

result = i

return result

number1 = int(input("ENTER FIRST NUMBER : "))

number2 = int(input("ENTER SECOND NUMBER : "))

print("THE HCF OF ",number1," AND ",number2," IS : ",calc\_hcf(number1, number2))

**Q2. What will be the output of the following Python code?**

i=0

**def** change(i):

i=i+1

**return** i

change(1)

print(i)

a) 1

b) Nothing **is** displayed

c) 0

d) An exception **is** thrown

Ans. c

3. What will be the output of the following Python code?

**def** a(b):

b = b + [5]

c = [1, 2, 3, 4]

a(c)

print(len(c))

Ans. 5

4. What will be the output of the following Python code?

a=10

b=20

**def** change():

**global** b

a=45

b=56

change()

print(a)

print(b)

a)

10

56

b)

45

56

c)

10

20

d) Syntax Error

Ans. a

5. What will be the output of the following Python code?

**def** change(i = 1, j = 2):

i = i + j

j = j + 1

print(i, j)

change(j = 1, i = 2)

a) An exception **is** thrown because of conflicting values

b) 1 2

c) 3 3

d) 3 2

Ans. d