**Day 1 session 1** **Examples programs Exercises**

**1).Find the compound interest for the given p,n,r (formula : p(1+n\*r/100)n )**

**Program:-**

import cmath

p=int(input('Enter p: '))  
n=int(input('Enter n: '))  
r=int(input('Enter r: '))  
CI=(p\*(1+n\*r/100))\*\*n  
print('The Compound Interest is {0}'.format(CI))

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**2).Convert centegrade to farenheit ( f= 9/5\*c+32)**

**Program:-**

import cmath

c = int(input("Enter c"))

f = (9/5)\*c+32

print("farhenheit value of {0} is {1}".format(c,f))

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**3).Find the greater of two nos**

**Program:-**

a = int(input("Enter a"))

b = int(input("Enter b"))

if a>b:

print('a is greater')

else:

print ('b is greater')

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**4).Write a program for finding surface areas of cylinder and cone (2\*PI\*r\*r\*h, 1/3\*PI\*r\*r\*h) using function.**

**Program:-**

import cmath

r = int(input("Enter r: "))

h = int(input("Enter h: "))

PI = 3.142

cyl = 2\*PI\*r\*h

cone = (1/3)\*PI\*r\*r\*h

print("surface area of cylinder:%0.3f and cone:%0.3f"%(cyl,cone))

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**5).Find the greatest of four nos ( using ‘and’ operator) using function.**

**Program:-**

a = int(input("Enter a"))

b = int(input("Enter b"))

c = int(input("Enter c"))

d = int(input("Enter d"))

def grt(a,b,c,d):

if a>b and a>c and a>d:

print ("a is greater")

elif b>a and b>c and b>d:

print ("b is greater")

elif c>a and c>b and c>d:

print ("c is greater")

else:

print ("d is greater")

grt(a,b,c,d);

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**Day 1 session 2 Examples programs**

**1 Write a program to print the triangle**

i/p 4

1

2 3

3 4 5

4 5 6 7

**Program:-**

n=4

r=1

for i in range(n+1):

for j in range(i):

print(r,end=” “)

r=r+1

print(‘ ‘)

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**2 Enter number 4**

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**Program:-**

n=4

for i in range(n):

for j in range(i):

print(‘\*’,end=” “)

print(‘ ‘)

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**3 Enter number 5**

5

4 5

3 4 5

2 3 4 5

1 2 3 4 5

**Program:-**

n=5

for i in range(n,0,-1):

for j in range(i-1,5,1):

print(‘j+1’,end=” “)

print(‘ ‘)

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4 **Enter number 5**

5 4 3 2 1

4 3 2 1

3 2 1

2 1

1

**Program:-**

n=5

for i in range(n,0,-1):

for j in range(i,0,-1):

print(j,end=” “)

print(‘ ‘)

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**5).Find the length of a string without using len functions**

**Program:-**

def count\_word(string,word):

ans=string.split(" ")

count=0

for occurence in ans:

if word==occurence:

count=count+1

return count

sentence=input("Enter the String")

word\_count="a"

print(sentence.split(" "))

print(count\_word(sentence,word\_count))

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**6).Find the no of words and characters in a string**

**Program:-**

st=input("Enter string: ")  
count=0  
res=len(st.split())  
for i in st:  
    count=count+1  
print("No. of words is "+str(res))  
print("No. of characters is {0}".format(count))

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**7).Find the no of occurrences of a word in a string**

**Program:-**

st=input("Enter string: ")  
word=input("Enter a word: ")  
c=0  
a=st.split()  
for i in range(len(a)):  
    if a[i]==word:  
        c=a.count(word)  
print("No. of occurrences of word in a string is {0} ".format(c))

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