**Lab cycle 3**

Program no.: 2

Aim : . Accept the radius from user and find area of circle.

Program:

**import** math  
r=float(input(**"enter the radius"**))  
area=math.pi\*r\*r  
print(**"area of circle is:%.2f"** %area)

output

enter the radius 4

area of circle is:50.27

program no.-3

aim:

Find biggest of 3 numbers entered.

Program:

n1=float(input(**"enter first number"**))  
n2=float(input(**"enter first number"**))  
n3=float(input(**"enter first number"**))  
large=0  
**if**(n1>n2)**and**(n1>n3):  
 large=n1  
**elif**(n2>n1)**and**(n2>n3):  
 large=n2  
**else**:  
 large=n3  
print(**"largest is :"**,large)

output:

enter first number 3

enter first number 8

enter first number2

largest is : 8.0

program no.4

aim:

. Accept a file name from user and print extension of that.

Program:

file=input("enter the name of file")

f\_ext=file.split(".")

print("the extension of file is :",f\_ext[-1])

output

enter the name of file python.py

the extension of file is : py

program no.:5

aim:

Create a list of colors from comma-separated color names entered by user. Display first

and last colors

program

Program no.-7

Aim:-

Print out all colors from color-list1 not contained in color-list2.

Program:-

color\_list1=set([**"red"**,**"blue"**,**"green"**,**"yellow"**])  
color\_list2=set([**"blue"**,**"black"**,**"red"**,**"pink"**])  
  
print(color\_list1.difference(color\_list2))

output:

{green, yellow}