## **Assignment 1**

1. Accept the radius from user and find area of circle. Hint: math.pi import math; r=input("Enter a radius: "); a=math.pi\*float(r)\*float(r); print("Area: %f" %a); 2. Find biggest of 3 numbers entered by user from console. Hint: max() import math; str=input("Enter 3 values seperated by ',' :- "); a=str.split(","); print("Largest = "+max(a[0],a[2],a[1]));3. Accept an integer n < 10 and compute n+nn+nnn. Hint: n=2 then sum = 2+ 22+ 222 = 246 a = int(input('Enter value')) # Use string formatting : n1 = int("%s" % a) n2 = int("%s%s" "(a,a)) etc. # Similar formatting can be used in print(): print('The sum of %d, %d and %d is %s' % (n1,n2,n3,sum))import math; n=int(input("Enter a number : ")); n1=int("%s" %n); n2=int("%s%s" %(n,n)); n3=int("%s%s%s" %(n,n,n)); res=n1+n2+n3; print("%d+%d+%d = %d" %(n1,n2,n3,res));

4. Write a demo program to perform type conversion between all basic data types and also with string.

```
import math;
n=input("Enter a digit : ");
x=int(input("Enter a integer : "));
y=float(input("Enter a float : "));
n1=int(y);
n2=float(x);
n3=str(x);
n4=int(n);
n5=str(y);
n6=float(n);
#print(type(n));
#print(type(x));
#print(type(y));
print ("after conversion");
print(type(n1));
print(type(n2));
print(type(n3));
print(type(n4));
print(type(n5));
print(type(n6));
```

5. Write short notes on all basic types with examples.

5. Basic date types on paython? Paython is dynamically bened language, hence we don't have to declare whom we what emplicitly bend the evalue to 118 type. they are ust, Float, Str., Complex, boolean. a = 5; stoke numeric natures. auto matically bend no restriction on value. Float. Plant used to Planting point numbers like 1.9, a.3, -4.6 etc. it is accurate upto eg) a = 1:3; 17 hold the value as true 07 Palse these able can be used to defermine the guren stakement

True on Palse it danote by the class boot.

Any Non-Zezo Value on T can be asset to represent time and o on F for False.

eg) a = true; b = t; c = F; d = false.

Complem.

Complea contain an ordered paix ie, at it format where a l y denote emagerical l omagenary Munder mespectively.

a= 2+4i, B=OtAi etc

Strong.

Sequence of cheracter in double quotes single quotes, double quotes on though gotes han be used to define stong.

ey a = "Hai";

truple quick of can be used for Multilune story

type () & islaskunce () type function to know the data type of variable. pxiol type  $\{(a); \Rightarrow \frac{olp}{Lclass} \text{ col} >.$ a = 2.3. type (a) => (class float. 1s constance of () arred to chanck an object belong to posticular class. eg) 13 holance (1+3j), complea) -> Thurn true. O/P will be boolean (True/Pales) type castery. b= float (a) =7 convert to set > 5.0 d= cost ( a b) => Constant to Got => d= 4. Sta (): - Convert to storing x= ask(1). y = sta (+) ,