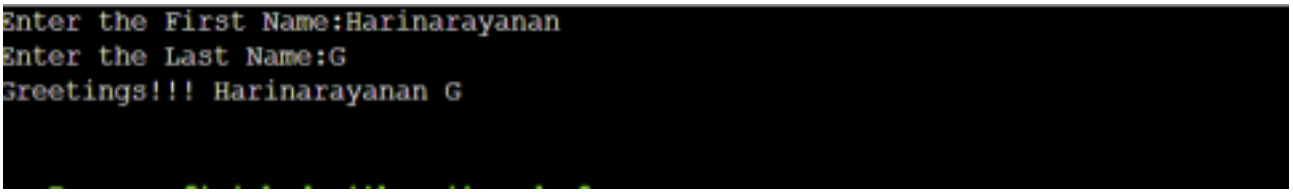
PROGRAM-1

AIM: Write a program that prompts the user to enter his first name and last name and then displays a message “Greetings!!! First name Last name”.

SOURCE CODE:

```
fn=input("Enter the First Name:")
ln=input("Enter the Last Name:")
print("Greetings!!!",fn,ln)
```

OUTPUT:



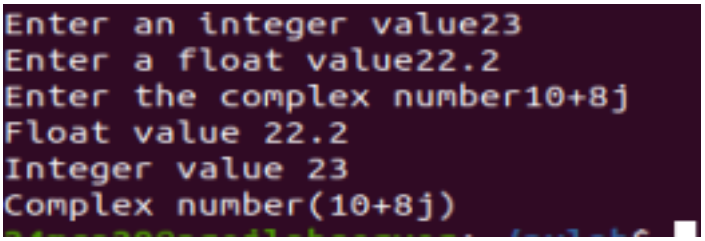
PROGRAM-2

AIM: Write a program to demonstrate different number data types in python?

SOURCE CODE:

```
i=int(input("Enter an integer value"))
f=float(input("Enter a float value"))
co=complex(input("Enter the complex number"))
print(f"Float value {f} \nInteger value {i}\nComplex number{co}")
```

OUTPUT:



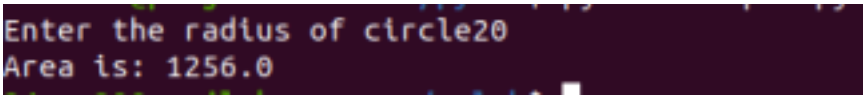
PROGRAM-3

AIM: Write a program to calculate the area of a circle by reading inputs from the user.

SOURCE CODE:

```
r=float(input("Enter the radius of circle"))
pi=3.14
ar=pi*r**2
print("Area is:",ar)
```

OUTPUT:



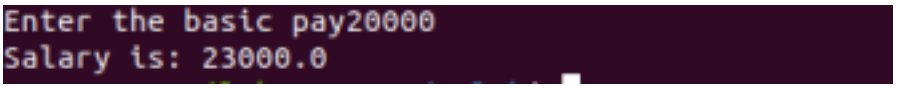
PROGRAM-4

AIM: Write a program to calculate the salary of an employee given his basic pay (to be entered by the user) . HRA = 10 percent of the basic pay, TA = 5 percent of the basic pay.

SOURCE CODE:

```
p=float(input("Enter the basic pay"))
hra=10/100*bp
ta=5/100*bp
sal=hra+bp+ta
print("Salary is:",sal)
```

OUTPUT:



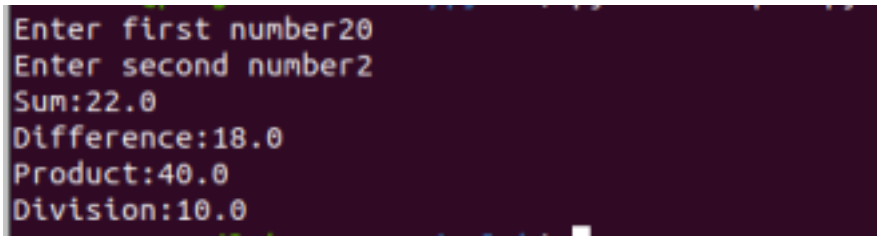
PROGRAM-5

AIM: Write a Python program to perform arithmetic operations on two integer numbers.

SOURCE CODE:

```
n1=float(input("Enter first number"))
n2=float(input("Enter second number"))
print(f"Sum:{n1+n2}\nDifference:{n1-n2}\nProduct:{n1*n2}\nDivision:{n1/n2}")
```

OUTPUT:



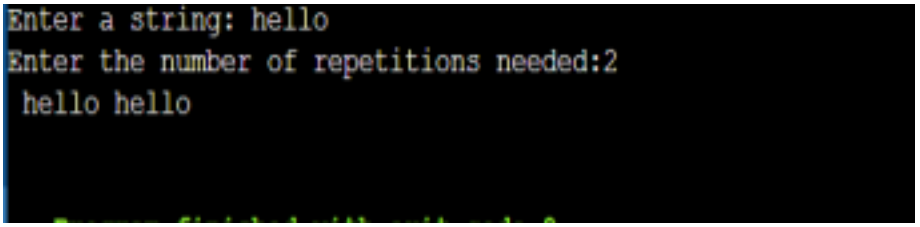
PROGRAM-6:

AIM: Write a Python program to get a string which is n (non-negative integer) copies of a given string

SOURCE CODE:

```
s=input("Enter a string:")
r=int(input("Enter the number of repetitions needed:"))
print(s*r)
```

OUTPUT:



PROGRAM-7

AIM: Program to accept an integer n and compute n+nn+nnn.

SOURCE CODE:

```
n=input("Enter a integer:")
print(n,'+',n*2,'+',n*3)
sum=int(n)+int(n*2)+int(n*3)
print("sum is",sum)
```

OUTPUT:

PROGRAM-8

AIM: Find the biggest of 3 numbers entered.

SOURCE CODE:

```
n1=int(input("Enter the first number:"))
n2=int(input("Enter the second number:"))
n3=int(input("Enter the third number:"))
if n1>n2 and n1>n3:
 print(f"{n1} is the biggest")
elif n2>n3:
 print(f"{n2}is the biggest")
else:
 print(f"{n3}is the biggest")
```

OUTPUT:

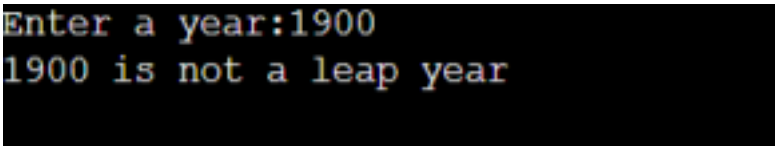
PROGRAM-9

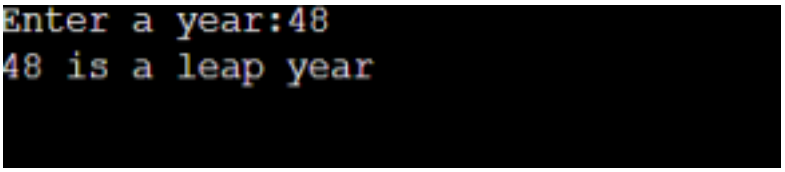
AIM: Program to determine whether a year is a leap year or not.

SOURCE CODE:

```
yr=int(input("Enter a year:"))
if (yr%400==0) and (yr%100==0):
 print(f"{yr} is a leap year")
elif (yr%4==0) and (yr%100!=0):
 print (f"{yr} is a leap year")
else:
 print(f"{yr} is not a leap year")
```

OUTPUT:





PROGRAM-10

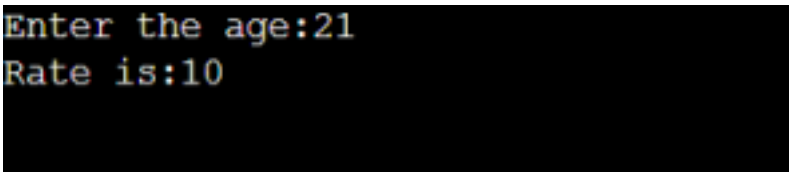
AIM: Write a Python program to determine the rate of entry-ticket in a trade fair based on age as follows:

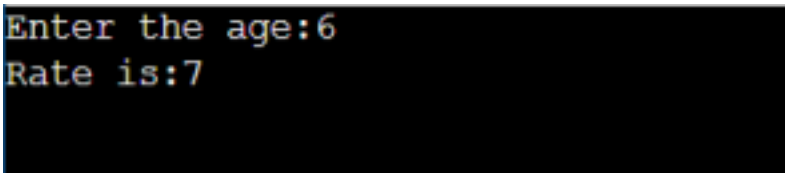
Age	Rate
<10	7
>=10 and <60	10
>= 60	5

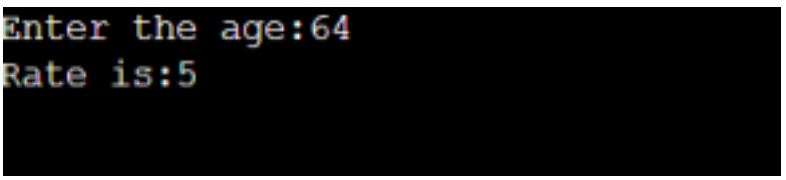
SOURCE CODE:

```
age=int(input("Enter the age:"))
if age<10:
 print("Rate is:7")
elif age>=10 and age<60:
 print("Rate is:10")
elif age>=60:
 print("Rate is:5")
else:
 print("Invalid age")
```

OUTPUT:







PROGRAM-11

AIM: Write a Python program to solve a quadratic equation.

SOURCE CODE:

```
import math
a=float(input("Enter the first number:"))
b=float(input("Enter the second number:"))
c=float(input("Enter the third number:"))
d=(b*b)-(4*a*c)
if d==0:
 root=-b/2*a
 print(f"Real and equal roots:{root}")
elif d>0:
 ans1=(-b-math.sqrt(d))/(2*a)
 ans2=(-b+math.sqrt(d))/(2*a)
 print(f"Real and distinct roots:{ans1} {ans2}") else:
 re=-b/2*a
 img=math.sqrt(abs(d))/(2*a)
 print(f"Complex and distinct roots:{re}+{img}j")
```

OUTPUT: