**BASIC PYTHON PROGRAMS**

PROGRAM TO PRINT THE NAME:

a=(input("enter the name : "))  
print(a)

output:

enter the name : yuvashree

yuvashree

2)Addition of two numbers:

a=20  
b=30  
c=a+b  
print(c)

output:

50

3) subtraction of two numbers:

a=40  
b=30  
c=a-b  
print(c)

output:

10

4)multiplication of two numbers:

a=10  
b=20  
c=a\*b  
print(c)

output:

200

5)division of 2 numbers:  
a=100  
b=10  
c=a/b  
print(c)

Output: 10

6)Area of circle:

r=4  
c=3.14\*r\*r  
print(c)

output:

50.24

7)Area of trapezoid:

b1=5  
b2=4  
h=10  
c=(0.5\*(b1\*b2)\*h)  
print(c)

output:

100.0

8)Area of Sphere

r=5  
c=(4\*3.14\*r\*r)  
print(c)

output:

314.0

9)surface area of cylinder:

r=20  
h=15  
c=2\*3.14\*r\*h  
print(c)

output:

1884.0000000000002

10)Quadratic equation

a=16  
x=20  
b=10  
c=20  
d=((a\*x)\*(x+b)\*(x+c))  
print(d)

output: 384000

11)Calculate the minutes

hour=int(input())  
min=int(input())  
total=(hour\*60)+min  
print(total)

output:

4

15

255

12)centi to Fahrenheit:

ce=int(input("enter the centi:"))  
c=(ce\*5/9-32)  
print(c)

output: enter the centi:12

-25.333333333333332

13) cube of number:

a=int(input("enter the number : "))  
c=a\*a\*a  
print(c)

output:

enter the number : 3

27

14) swapping with temporary variable:

a=int(input("value of number1:"))  
b=int(input("value of number2:"))  
temp=a  
a=b  
b=temp  
print("after swapping:")  
print("value of a:",a)  
print("value of b:",b)

output: value of number1:10

value of number2:20

after swapping:

value of a: 20

value of b: 10

15)swapping without temporary variable:

a=int(input("value of number1:"))  
b=int(input("value of number2:"))  
a=a+b  
b=a-b  
a=a-b  
print("after swapping:")  
print("value of a:",a)  
print("value of b:",b)

output:

value of number1:20

value of number2:30

after swapping:

value of a: 30

value of b: 20