**ARITHMETIC OPERATORS WITHOUT USER VALUES**

a=10

b=2

add=a+b

sub=a-b

mul=a\*b

div=a/b

mod=a%b

print("addition is:",add)

print("subraction is:",sub **)**

print("multiplication is:",mul)

print("division is:",div)

print("modulus is:",mod)

**OUTPUT:**

addition is: 12

subraction is: 8

multiplication is: 20

division is: 5.0

modulus is: 0

**ARITHMETIC OPERATORS WITH USER VALUES**

a=int(input("enter a value1:"))

b=int(input("enter b value2:"))

add=a+b

sub=a-b

mul=a\*b

div=a/b

mod=a%b

print("addition is:",add)

print("subraction is:",sub)

print("multiplication is:",mul)

print("division is:",div)

print("modulus is:",mod)

**OUTPUT:**

enter a value1:10

enter b value2:5

addition is: 15

subraction is: 5

multiplication is: 50

division is: 2.0

modulus is: 0

**COMPARISION OPERATORS**

a=int(input("enter the first value:"))

b=int(input("enter the second value:"))

print(a<b)

print(a>b)

print(a<=b)

print(a>=b)

**OUTPUT:**

enter the first value:10

enter the second value:25

True

False

True

False

**SWAPPING TWO VALUES**

a=int(input("enter a value1:"))

b=int(input("enter b value2:"))

a=a+b

b=a-b

a=a-b

print("the value of a after swapping:",a)

print("the value of b after swapping:",b)

**OUTPUT:**

enter a value1:10

enter b value2:15

the value of a after swapping: 15

the value of b after swapping: 10

**AREA OF TRIANGLE**

h=int(input("enter height of triangle:"))

b=int(input("enter base of triangle:"))

print("area of triangle:",0.5\*a\*b)

**OUTPUT**

enter height of triangle:10

enter base of triangle:5

area of triangle: 37.5

**AREA AND PERIMETER OF RECTANGLE**

l=int(input("enter a length value:"))

b=int(input("enter a breadth value:"))

print("area of rectangle:",l\*b)

print("perimeter of rectangle:",2\*(l+b))

**OUTPUT:**

enter a length value:10

enter a breadth value:5

area of rectangle: 50

perimeter of rectangle: 30

**RADIUS OF CIRCLE**

d=int(input("enter a diameter;"))

radius=d/2

print(radius)

**OUTPUT:**

enter a diameter;15

7.5