Arithmetic Operators

In [25]:
```
# Addition
a=12
b=13
c=a+b
print(c)
```

```
25
```

In [2]:
```
# Subtraction
a=25
b=12
c=a-b
print(c)
```

```
13
```

In [3]:
```
# Multiplication
x=5
y=3
z=x*y
print(z)
```

```
15
```

In [4]:
```
# Division
x=20
y=5
z=x/y
print(z)
```

```
4.0
```

In [5]:
```
# Modulus
a=10
b=3
c=a%b
print(c)
```

```
1
```

In [6]:
```
# Floor Division
a=10
b=3
c=a//b
print(c)
```

```
3
```

In [7]:
```
# Power of a Number
a=int(input("Enter the number "))
b=int(input("Enter the power "))
c=a**b
print(c)
```

```
Enter the number 2
Enter the power 3
8
```

Print

In [8]:
```
print("My name is Anza")
```

```
My name is Anza
```

In [2]:
```
s="My name is Anza"
s
```

Out[2]:
```
'My name is Anza'
```

In [3]:
```
print(s)
```

```
My name is Anza
```

Multiple Assignments

In [16]:
```
a,b,c=10,20,30
print(a,b,c)
```

```
10 20 30
```

In [19]:
```
a=b=c=d=6
print(a,b,c,d)
```

```
6 6 6 6
```

In [20]:
```
a,b,c=1,4.5,'hello'
print(a)
print(b)
print(c)
```

```
1
4.5
hello
```

Miscellaneous Basic Programs

In [5]:
```
# Cocatenation of numbers
x=input('Enter the number ')
y=input("Enter the number ")
z=x+y
print(z)
```

```
Enter the number 56
Enter the number 78
5678
```

In [6]:
```
# Concatenation of 5 numbers
a=input('Enter the number ')
b=input('Enter the number ')
c=input('Enter the number ')
d=input('Enter the number ')
e=input('Enter the number ')
x=a+b+c+d+e
print(x)
```

```
Enter the number 1
Enter the number 2
Enter the number 3
Enter the number 4
Enter the number 5
12345
```

In [10]:
```
# Swapping
a=int(input("Enter the first number "))
b=int(input("Enter the second number "))
print("Before Swap,a=",a)
print("Before Swap,b=",b)
a=a+b
b=a-b
a=a-b
print('After Swap, a=',a)
print('After Swap, b=',b)
```

```
Enter the first number 45
Enter the second number 89
Before Swap,a= 45
Before Swap,b= 89
After Swap, a= 89
After Swap, b= 45
```

In [11]:
```
# Reverse of a number
a=int(input('Enter the number '))
print('Before reversing',a)
Dig1=a%10
Dig2=a//10
b=Dig1*10+Dig2
print('After reversing',b)
```

```
Enter the number 67
Before reversing 67
After reversing 76
```

In [13]:
```
#Circumference of a Circle
r=float(input('Enter the radius: '))
p=2*3.14*r
print("Circumference of the circle is =",p)
```

```
Enter the radius: 4
Circumference of the circle is = 25.12
```

In [14]:
```
#Perimeter of a Rectangle
l=float(input('Enter the length: '))
w=float(input('Enter the width: '))
p=2*(l+w)
print("Perimeter of the rectangle = ",p)
```

```
Enter the length: 5
Enter the width: 6
Perimeter of the rectangle =  22.0
```

In [15]:
```
#Perimeter of a Rectangle with Unit
l=float(input('Enter the length: '))
w=float(input('Enter the width: '))
p=2*(l+w)
print("Perimeter of the rectangle =",p,"m^3")
```

```
Enter the length: 2
Enter the width: 3
Perimeter of the rectangle = 10.0 m^3
```

In [16]:
```
#Volume of Sphere
radius=float(input('Enter the radius: '))
vol=(4/3)*3.1416*(radius*radius*radius)
print("Volume=",vol)
```

```
Enter the radius: 4
Volume= 268.0832
```

In [17]:
```
#Volume of cube
a=int(input('Enter the length: '))
V=a*a*a
print("Volume=",V)
```

```
Enter the length: 5
Volume= 125
```

In [18]:
```
#Volume of Cylinder
r=float(input("Enter the radius: "))
h=float(input("Enter the height: "))
V=3.14*r*r*h
print("Volume=",V)
```

```
Enter the radius: 3
Enter the height: 5
Volume= 141.29999999999998
```

In [20]:
```
# Area of Square
a=int(input("Enter the length "))
Area=a**2
print("Area=",Area,"m^2")
```

```
Enter the length 4
Area= 16 m^2
```

In [21]:
```
# Area of a Rectangle
l=int(input("Enter the length "))
w=int(input("Enter the width "))
Area=l*w
print("Area=",Area,"m^2")
```

```
Enter the length 3
Enter the width 2
Area= 6 m^2
```

In [22]:
```
# Area of a circle
r=int(input("Enter the radius "))
Area=3.14*(r**2)
print("Area=",Area,"m^2")
```

```
Enter the radius 7
Area= 153.86 m^2
```

In [ ]:
```

```