

AIM:-

To elaborate variables and their data types such as int, float, boolean, string, list, set, dictionary and tuples;  
swap two numbers.

Source Code

A = 20

B = 5.39

C = false

D = "Hi, I'm Nitish"

E = [20, 4.5, "56 types", "Nitish"]

F = {1, 1, 2, 2, 3, 4, 5, 2, 6}

G = {"name": "Nitish", "Age": 9.2}

H = (2, 6.66, "Mouths", "yummy")

print ("Value of A = ", A)

print ("Type of A = ", type(A))

print ("Value of B = ", B)

print ("Type of B = ", type(B))

print ("Value of C = ", C)

print ("Type of C = ", type(C))

print ("Value of D = ", D)

print ("Type of D = ", type(D))

print ("Value of E = ", E)

print ("Type of E = ", type(E))

```
print ("Value of f = ", f)
print ("Type of f = ", type (f))
```

```
print ("Value of g = ", g)
print ("Type of g = ", type (g))
```

```
print ("Value of H = ", H)
print ("Type of H = ", type (H))
```

Swap two numbers.

(ii) source code

```
a = int (input ("Enter the first number : "))
b = int (input ("Enter the second number : "))
print ("Before swapping a = " + str (a) + " and b = " + str (b))
a, b = b, a
print ("After swapping a = " + str (a) + " and b = " + str (b))
```

## AIM

To perform mathematical operators such as addition subtraction, multiplication, division, modulo and power and also the operator precedence.

## Source Code

```
a = int(input("Enter first number : "))
```

```
b = int(input("Enter second number : "))
```

```
sum = a+b
```

```
sub = a-b
```

```
MUL = a*b
```

```
Div = a/b
```

```
Mod = a%b
```

```
pow = a**b
```

```
F/r = a//b
```

```
print("Sum of {} and {} is : {}".format(a,b,sum))
```

```
print("Subtraction of {} and {} is : {}".format(a,b,sub))
```

```
print("Multiplication of {} and {} is : {}".format(a,b,MUL))
```

```
print("Division of {} and {} is : {}".format(a,b,Div))
```

```
print("Modulo of {} and {} is : {}".format(a,b,Mod))
```

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print ("power of 10<sup>a</sup> and 10<sup>b</sup> is : 10<sup>a+b</sup>".format(a,b,pow))

print ("Floor division of 10<sup>a</sup> and 10<sup>b</sup> is : 10<sup>a+b</sup>.format(a,b,floor))

## (ii) operator precedence

=> source code

a = 10

b = 50

c = 30

d = 20

e = (a+b) \* c/d

print ("value of (a+b) \* (c/d) is ", e)

e = ((a+b) \* c) / d

print ("value of ((a+b) \* c) / d is ", e)

e = (a+b) \* (c/d)

print ("value of (a+b) \* (c/d) is ", e)

e = a + (b\*c)/d

print ("value of (a + (b\*c)/d) is ", e)