

```
In [4]: name = "Sonali"
age = 20
height = 5.3
student = True
print(name, type(name))
print(age, type(age))
print(height, type(height))
print(student, type(student))
```

```
Sonali <class 'str'>
20 <class 'int'>
5.3 <class 'float'>
True <class 'bool'>
```

```
In [8]: a = int(input("Enter the value of a :"))
print(a)
b = int(input("Enter the value of b :"))
print(b)
print("Sum : ", a + b) print("Diff
: ", a - b) print("Div : ", a /
b) print("Multi : ", a * b)
print("Mod : ", a % b)
print("Expo : ", a ** b)
print("floor div : ", a // b)
```

```
20
10
Sum : 30
Diff : 10
Div : 2.0
Multi : 200
Mod : 0 Expo :
10240000000000 floor
div : 2
```

```
In [9]: a = int(input("a : "))
b = int(input("b : "))
print(a > b)
print(a < b) print(a
== b) print(a != b)
print(a >= b)
print(a <= b)
```

```
False
True
False
True
False
True
```

```
In [10]: a = True b  
= False  
print("AND : ", a and b)  
print("OR : ", a or b) print("NOT  
: ", not b) print("NOT : ", not  
a)
```

```
AND :  False  
OR :  True  
NOT :  True  
NOT :  False
```

```
In [11]: a = input() b =  
int(a) c =  
float(a)  
print(a, type(a))  
print(b, type(b))  
print(c, type(c))
```

```
2 <class 'str'>  
2 <class 'int'>  
2.0 <class 'float'>
```

```
In [12]: a = 12.34 b =  
int(a) print(a,  
type(a)) print(b,  
type(b))
```

```
12.34 <class 'float'>  
12 <class 'int'>
```

```
In [13]: a      = int(input("a : "))  
b      = str(a)   print(a, type(a))  
print(b, type(b))
```

```
24 <class 'int'>  
24 <class 'str'>
```

```
In [14]: a = "12"  b =  
12.45  c = 11  
print(b + c)  
print(c + int(a))
```

```
23.45  
23
```

```
In [15]: a = 1 b  
= 0  
print("Before swapping, a : ", a) print("Before  
swapping, b : ", b)  
c = a  
a = b  
b = c  
print("After swapping, a : ", a) print("After  
swapping, b : ", b)
```

```
Before swapping, a : 1  
Before swapping, b : 0  
After swapping, a : 0  
After swapping, b : 1
```

```
In [16]: a = float(input()) b  
= float(input())  
area = a * b  
print("Area is : ", area)
```

```
Area is : 54.0
```

```
In [17]: a = float(input("a : ")) b  
= float(input("b : ")) c =  
float(input("c : ")) avg  
= (a + b + c) / 3  
print("Average : ", avg)
```

```
Average : 6.333333333333333
```

```
In [18]: cel = 233.1  
fah = (cel * 1.8) + 32 print("Fahrenheit  
: ", fah)
```

```
Fahrenheit : 451.58
```

```
In [19]: a = int(input("a : "))  
if a % 2 == 0:  
print("Even") else:  
print("Odd")
```

```
Even
```

```
In [20]: a = int(input("a : ")) b  
= int(input("b : "))  
sum = a + b diff  
= a - b
```

```
pro = a * b quo
= a / b      rem =
a % b
print(str(sum) + " " + str(diff) + " " + str(pro) + " " + str
( 12 2 35 1.4 2
```

```
In [21]: name = input("Name : ")
age = input("Age : ") h
= input("Height : ")
print(f"\n\nName : {name}\nAge : {int(age)}\nHeight : {float(
```

```
Name : Soumya
Age : 20
Height : 4.11
```

```
In [ ]:
```