

iac-27-lec1

March 7, 2023

[5]: `1 + 5 * 6 + 10/3`

[5]: 36.0

[6]: `10 / 3`

[6]: 3.3333333333333335

[7]: `10 // 3`

[7]: 3

[8]: `10 - 5`

[8]: 5

[9]: `5 ** 6`

[9]: 15625

[10]: `10 * 3`

[10]: 30

[11]: `10 ** 3`

[11]: 1000

[12]: `30 % 4`

[12]: 2

[13]: `x = 30 % 4`

[14]: `x`

[14]: 2

```
[15]: x + 10
```

```
[15]: 12
```

```
[16]: if = x + 10
```

```
[17]: x
```

```
[17]: 12
```

```
[19]: print('The value of x is ', x)
```

```
The value of x is 12
```

```
[20]: # data types  
x = 10 / 3
```

```
[21]: x
```

```
[21]: 3.3333333333333335
```

```
[22]: type(x)
```

```
[22]: float
```

```
[23]: y = 20 * 3  
type(y)
```

```
[23]: int
```

```
[25]: string_val = 'This is a string. '  
type(string_val)
```

```
[25]: str
```

```
[32]: string_val_2 = "I am new to programming."
```

```
[33]: print(string_val_2)
```

```
I am new to programming.
```

```
[35]: string_concat = string_val + string_val_2
```

```
[36]: print(string_concat)
```

```
This is a string. I am new to programming.
```

```
word_10 = "word," * 10
```

```
word_10
```

```
'word,word,word,word,word,word,word,word,word,word, '
```

```
print(x, y, sep=", ")
```

3.333333333333335, 60

```
# input function
```

```
# input an integer and add 5 with it.
print("Please input an integer")
x = input()
```

```
Please input an integer
```

100

```
print(x)
```

100

```
type(x)
```

str

```
x + "02"
```

'10002'

```
len(x)
```

```
len(string_val)
```

```
type(x)
```

```
x_int = int(x)
```

```
type(x_int)
```

```
[63]: x_int
```

```
[63]: 100
```

```
[65]: x_int + 10
```

```
[65]: 110
```

```
[68]: print("Please enter the first number")
      x1 = input()
      print("please enter the second number")
      x2 = input()
      result = float(x1) + float(x2)
      print("Result of Addition: ", result)
```

```
Please enter the first number
100.2
please enter the second number
.7
Result of Addition:  100.9
```

```
[69]: type(result)
```

```
[69]: float
```

```
[70]: result_str = str(result)
      type(result_str)
```

```
[70]: str
```

```
[82]: print("Please enter the first number")
      x1 = float(input())
      print("please enter the second number")
      x2 = float(input())
      res = x1 == x2
      print("if equal: ", res)
```

```
Please enter the first number
10
please enter the second number
11
if equal:  False
```

```
[83]: int(res)
```

```
[83]: 0
```

```
[90]: # relational operator
print("Please enter the first number")
x1 = float(input())
print("please enter the second number")
x2 = float(input())
res = x1 <= x2
print("if not equal: ", res)
```

```
Please enter the first number
4
please enter the second number
5
if not equal:  True
```

```
[95]: # boolean operator
res = False or True
print(res)
```

```
True
```

```
[1]: x3 = float(input())
if x3 > 5 and x3 < 10: # False
    print("You have given the correct number")
elif x3 == 10:
    print("you have given 10")
else:
    print("you have given the wrong number")
```

```
10
you have given 10
```

```
[ ]:
```