Operators:

```
- Arithmetic Operator -> +,-,*,%,/(float values),//(integer values),
                         **(power)
- Logical Operator -> AND(and),OR(or),NOT(!)
                   -> Checking (T or F)
                   -> T or F
- Bitwise Operator -> AND(&),OR(|),shift(<<,>>)
                   -> Values (T or F)
                   -> Value
- Relational Operator -> <,>,==,!=,>=,<= etc.,
- Assignment Operator -> +=,-=,/=,%=,//=,etc., A = A+B => A+=B
- Membership Operator -> in, not in -> checking (data structures)
- Identity Operator -> is,is not -> checking (strings)
```

```
Example:

AND ->  T   &  T  -> T
    -> (1)  & (2) -> True
OR  ->  F   |  F  -> F
    -> (1)  | (2) -> False

A = 20
B = 2

A +=B => A = 22, B = 2
print(A,B) => (22,2)
```

Reading data from User:

```
- Dynamic -> n number of inputs n number of outputs
- Static -> 1 single value input 1 value output

=> Static -> Fixed value
=> Dynamic -> User has to given an input
```

Input format:

```
-> a = input() -> user(data)
-> a = ? -> By default (string data type)
-> b = input("Enter a value:")
-> input() => Display[user prompt]
           => Reads Data from user[data]
```

Output format:

```
-> https://pyformat.info
```

In [1]:

```
z = input()
print(z,type(z))
z
```

```
345
345 <class 'str'>
```

Out[1]:

```
'345'
```

In [2]:

```
d = input("Enter a value from user: ")
print(d,type(d))
d
```

```
Enter a value from user: 45
45 <class 'str'>
```

Out[2]:

```
'45'
```

```
Enter your name: rakesh
Entered data from u is: rakesh

2
5
Entered numbers are 2 and 5
```

In [5]:

```
se = input("Enter your name: ")
print("Entered data from u is:",se)
```

```
Enter your name: raju
Entered data from u is: raju
```

In [8]:

```
r = input("Enter first value: ")
b = input("Enter second value: ")
print("Entered numbers are",r,"and",b)
```

```
Enter first value: 5
Enter second value: 6
Entered numbers are 5 and 6
```

In [13]:

```
t = input("Enter a value: ")
y = input("Enter b value: ")
print("Entered numbers are {1} and {0}".format(y,t))
print("Entered numbers are %s and %s"%(y,t))
```

```
Enter a value: 7
Enter b value: 9
Entered numbers are 7 and 9
Entered numbers are 9 and 7
```

Type Casting:

-> int -> It converts to integer values(int())
-> float -> It converts to floating values(float())
-> string -> It converts to string values(str())

In [16]:

```
n = '234972398479237489723984790127339081729387109273987123947293876498012639461290346
len(n)
```

Out[16]:

```
195
```

In [22]:

```
n = int(input())
print(n)
print(n,type(n))
```

```
5
5
5 <class 'int'>
```

In [23]:

```
k = float(input())
print(k,type(k))
k = str(k)
print(k,type(k))
```

```
45
45.0 <class 'float'>
45.0 <class 'str'>
```

In [ ]:

```

```