

Conditional Statements:(Checking)

- To check whether a given condition is either True or False

-> if -> Single case(checking T(user defined)

-> if-else -> Two cases(checking T[output] F[output])

-> nested if -> Two or more cases

-> elif ladder -> Two or more n number cases

if ¶

-> (condition) // ()-> optional

Syntax:

```
if condition:
    //stmnts
```

Statement: 1

Input: 56

Output: Given number is 56.0

In [10]:

```
1 k = input()
2 if int(k) == float(k):
3     print("Given number is: {}".format(float(k)))
```

45

Given number is: 45.0

In [18]:

```
1 l = input()
2 r = input()
3 if int(l)%int(r) == 0:
4     print("Give number {} is divisible by {}".format(l,r))
```

45

5

Give number 45 is divisible by 5

if-else

-> (conditions) -> () // optional

Syntax:

```
if condition:
    //stmt-1 (True)
else:
    //stmt-2 (False)
```

Statement: 2

Input: -98

Output: Given number is -98 and it is Negative

Input: 45

Output: Given number is 45 and it is Positive

In [26]:

```
1 m = int(input())
2 if m < 0:
3     print("Given number is {} and it is Negative".format(m))
4 else:
5     print("Given number is {} and it is Positive".format(m))
```

345

Given number is 345 and it is Positive

nested if

-> (conditions) -> () // -> optional

Syntax:

```
if condition-1:
    if condition-2:
        //stmt-1
    else:
        //stmt-2
else:
    //stmt
```

Statement: 3

[501-560] -> 1st year

Input: 501

cse

Output:

You are from CSE 1st year and your roll number is: 501

Input: 230

cse

Output:

You are from CSE and you didnt belongs to 1st year

Input: 501

ece

Output:

You are from ece and your roll number is: 501

In [31]:

```
1 ro = int(input())
2 b = input()
3 if b == 'cse':
4     if (ro <= 560) and (ro >= 501):
5         print("You are from CSE 1st year and your Roll number is: {}".format(ro))
6     else:
7         print("You are from CSE and you didnt belongs to 1st year")
8 else:
9     print("You are from {} and your roll number is: {}".format(b,ro))
```

501

eee

You are from eee and your roll number is: 501

In []:

1