

If..else

This syntax is having is two block

1. If block
2. Else block

Syntax:

```
if <condition>:
```

```
    Statement-1
```

```
    Statement-2
```

```
else:
```

```
    statement-3
```

```
    statement-4
```

```
statement-5
```

if condition is true, it execute statement-1,statement-2 and statement-5

if condition is false, it execute statement-3,statement-4 and statement-5

Example:

```
if True:
```

```
    print("Python")
```

```
else:
```

```
    print("Java")
```

```
if False:
```

```
    print("Python")
```

```
else:
```

```
    print("Java")
```

Output:

```
Python
```

```
Java
```

```
>>>
```

Example:

Write a program to check whether a person is eligible for voting or not. (accept age from user)

```
name=input("Enter name")
```

```
age=int(input("Enter age"))
if age>=18:
    print(f'{name} is elg to vote')
else:
    print(f'{name} is not elg to vote')
```

Output:

```
Enter namenaresn
Enter age40
naresh is elg to vote
>>>
===== RESTART: C:/Users/user/Desktop/python6pm/py33.py
=====
Enter namesuresh
Enter age14
suresh is not elg to vote
>>>
```

Example:

Write a program to check whether a number entered by user is even or odd.

```
num=int(input("Enter any number"))
if num%2==0:
    print(f'{num} is even')
else:
    print(f'{num} is odd')
```

Output:

```
Enter any number4
4 is even
>>>
===== RESTART: C:/Users/user/Desktop/python6pm/py34.py
=====
Enter any number5
5 is odd
>>>
```

Example:

```
if True:
```

```
    pass
else:
    print("Java")

if False:
    print("Python")
else:
    pass
Output:
No Output
```

Example:

#Write a program to display "Hello" if a number entered by user is a multiple of five ,
otherwise print "Bye".

```
num=int(input("Enter any number"))
if num%5==0:
    print("Hello")
else:
    print("Bye")
```

Output:

Enter any number12

Bye

>>>

===== RESTART: C:/Users/user/Desktop/python6pm/py36.py
=====

Enter any number25

Hello

>>>

Example:

Write a program to check whether the last digit of a number(entered by user) is
divisible by 3 or not.

```
num=int(input("enter any number"))
d=num%10
if d%3==0:
```

```

    print(f'last digit of {num} is divisible with 3')
else:
    print(f'last digit of {num} is not divisible with 3')
Output:
enter any number123
last digit of 123 is divisible with 3
>>>
===== RESTART: C:/Users/user/Desktop/python6pm/py37.py
=====
enter any number125
last digit of 125 is not divisible with 3
>>>

```

If..elif..else

This syntax allows to check multiple conditions

```

If <condition1>:
    Statement-1
elif <condition2>:
    statement-2
elif <condition3>:
    statement-3
..
else:
    statement-4

```

if condition1 True, it execute statement-1
 if condition1 False, condition2 is True is Statement-2
 if condition1,condition2 False, condition3 is True statement-3
 if all conditions are false, it execute else block.

<https://csiplearninghub.com/python-if-else-conditional-statement-practice/>