08th May 2025

Advance Python - Conditional Statements

- if
- if else
- if elif else
- nested if # we never use in real life. frontend will be very slow

```python
In [1]: if True:    # Indentation is always 4 spaces
            print('Vihari Nandan')
```

```
Vihari Nandan
```

```python
In [2]: if False:
            print("Vihari Nandan")
        print("Good Evening")
```

```
Good Evening
```

```python
In [3]: if True:
            print("Vihari Nandan")
        print("Good Evening")
```

```
Vihari Nandan
Good Evening
```

```python
In [4]: if True:
            print("Vihari Nandan")
        else:
            print("Good Evening")
```

```
Vihari Nandan
```

```python
In [5]: if False:
            print("Vihari Nandan")
        else:
            print("Good Evening")
```

```
Good Evening
```

Programs

```python
In [6]: x = 4
        r = x % 2

        if r == 0:
            print("Even Number")
```

```
Even Number
```

In [7]:
```python
x = 5
r = x % 2

if r == 0:
    print("Even Number")

if r != 0:
    print("Odd Number")
```

Odd Number

In [8]:
```python
x = 5
r = x % 2

if r == 0:
    print("Even Number")

if r == 1:
    print("Odd Number")
```

Odd Number

In [9]:
```python
x = 4
r = x % 2

if r == 0:
    print("Even Number")
else:
    print("Odd Number")
```

Even Number

In [10]:
```python
x = 3
r = x % 2

if r == 0:
    print("Even Number")
    if x > 5:
        print("Greater Number")
else:
    print("Odd Number")
```

Odd Number

In [11]:
```python
x = 4
r = x % 2

if r == 0:
    print("Even Number")
    if x > 5:
        print("Greater Number")
    else:
        print("Less Number")
else:
    print("Odd Number")
```

```
Even Number
Less Number
```

In [12]:
```python
x = 6
r = x % 2

if r == 0:
    print("Even Number")
    if x > 5:
        print("Greater Number")
    else:
        print("Not Greater")
else:
    print("Odd Number")
```

```
Even Number
Greater Number
```

In [13]:
```python
x = 2

if x == 1:
    print("ONE")
if x == 2:
    print("TWO")
if x == 3:
    print("THREE")
if x == 4:
    print("FOUR")
```

```
TWO
```

In [14]:
```python
x = 5

if x == 1:
    print("ONE")
if x == 2:
    print("TWO")
if x == 3:
    print("THREE")
if x == 4:
    print("FOUR")
```

In [15]:
```python
x = 9

if x == 1:
    print("ONE")
elif x == 2:
    print("TWO")
elif x == 3:
    print("THREE")
elif x == 4:
    print("FOUR")
else:
    print("Number not Found")
```

```
Number not Found
```

In [17]:
```python
x = int(input("Enter the Number"))
r = x % 2

if r == 0:
    print("Even Number")
    if x > 3:
        print("Greater Number than x value")
else:
    print("Odd Number")
```

```
Even Number
Greater Number than x value
```