Decision Control if, if-else,if-elif-else,nested if-else

In [1]:

```python
# IF
a = int(input("enter a no.:"))
if a>0:
    print("Number is Positive")
```

```
enter a no.:2
Number is Positive
```

```
Python follows indent(indentation)(tab)

block of code represents by ":" -> colon
```

In [3]:

```python
if a>0:
print("Number is Positive")
```

```
  Cell In[3], line 2
    print("Number is Positive")
    ^
IndentationError: expected an indented block after 'if' statement on line 1
```

In [5]:

```python
b = int(input("enter a no.:"))
if b>0:
    print("Number is Positive")
    print("inside if")
print("outside if")
```

```
enter a no.:0
outside if
```

In [8]:

```python
if b>=0:
    print("Number is Positive")
    print("inside if")
print("outside if")
```

```
Number is Positive
inside if
outside if
```

In [9]:

```python
# IF-ELSE
a = int(input("enter a no.:"))
if a>0:
    print("Number is Positive")
else:
    print("Number is Nagative")
```

```
enter a no.:12
Number is Positive
```

In [10]:

```python
a = int(input("enter a no.:"))
if a>0:
    print("Number is Positive")
else:
    print("Number is Nagative")
```

```
enter a no.:-12
Number is Nagative
```

In [14]:

```python
# IF-ELIF-ELSE

a = int(input("enter a no.:"))
if a>0:
    print("Number is Positive")
elif a<0:
    print("Number is Nagative")
else:
    print("Number is Zero")
```

```
enter a no.:-5
Number is Nagative
```

In [1]:

```python
# Nested IF-ELSE
i=int(input("Enter a no.: "))
if(i<10):
        if i%2==0:
            print("Even below 10")
        else:
            print("odd below 10")
else:
    if i%2==0:
        print("Even over 10")
    else:
        print("odd over 10")
```

```
Enter a no.: 25
odd over 10
```