IF STATEMENT

In [6]:
```python
# PRINTING EVEN AND ODD NUMBERS
```

In [8]:
```python
# IF THE REMINDER IS ZERO IT PRINTS ' EVEN NUMBER '
# IF THE REMINDER IS NOT ZERO IT PRINTS ' ODD NUMBER '
```

In [16]:
```python
# USING  SINGLE IF CONDITION
```

In [10]:
```python
x = 5
r = x % 2

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

# FOR THIS CODE AS THE REMINDER IS 1, THERE IS NO OTHER STATEMENT TO EXECUTE HEN
```

In [24]:
```python
x = 6
r = x % 2

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

# FOR THIS CODE AS THE REMINDER IS 0, IT PRINTS EVEN NUMBER
```

```
Even Number
```

In [18]:
```python
# USING MULTIPLE IF CONDITION
```

In [22]:
```python
x = 5
r = x % 2

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

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

# FOR THIS CODE AS THE REMINDER IS 1, THE 1st IF CONDITION IS NOT SATISFIED, IT
# CONDITION IS SATISFIED, HENCE IT PRINTS ODD NUMBER
```

```
Odd Number
```

In [32]:
```python
x = 6
r = x % 2

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

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

# FOR THIS CODE AS THE REMINDER IS 0, THE 1st IF CONDITION IS SATISFIED, IT EXIT
# CONDITION IS NOT SATISFIED, HENCE IT PRINTS EVEN NUMBER
```

```
Even Number
```

IF ELSE STATEMENT

In [39]:
```python
x = 5
r = x % 2

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

else:
    print("Odd Number")

# FOR THIS CODE AS THE REMINDER IS 1, THE 1st IF CONDITION IS NOT SATISFIED, IT
# CONDITION IS SATISFIED, HENCE IT PRINTS ODD NUMBER
```
Odd Number

In [45]:
```python
x = 6
r = x % 2

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

else:
    print("Odd Number")

# FOR THIS CODE AS THE REMINDER IS 0, THE 1st IF CONDITION IS SATISFIED, IT EXIT
# HENCE IT PRINTS EVEN NUMBER
```
Even Number

IF ELIF STATEMENT

In [57]:
```python
x = 5
r = x % 2

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

elif r == 1:
    print("Odd Number")

# FOR THIS CODE AS THE REMINDER IS 1, THE 1st IF CONDITION IS NOT SATISFIED, IT
# CONDITION IS SATISFIED, HENCE IT PRINTS ODD NUMBER
```
Odd Number

In [59]:
```python
x = 6
r = x % 2

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

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

```
# FOR THIS CODE AS THE REMINDER IS 0, THE 1st IF CONDITION IS SATISFIED, IT EXIT
# HENCE IT PRINTS EVEN NUMBER
```

Even Number

IF ELIF ELSE STATEMENT

In [71]:
```python
a = 11
b = 10

if a > b:
    print("A is Greater than B")

elif a == b:
    print(" A is Equal To B")

else:
    print("A is Lesser than B")

# FOR THIS AS A > B, THE IF CONDITION IS SATISFIED, IT DEOS NOT CHECK THE ELIF C
# IT PRINTS A IS GRATER THAN B
```

A is Greater than B

In [65]:
```python
a = 5
b = 5

if a > b:
    print("A is Greater than B")

elif a == b:
    print(" A is Equal To B")

else:
    print("A is Lesser than B")

# FOR THIS AS BOTH THE NUMBERS ARE EQUAL, THE IF CONDITION IS NOT SATISFIED, THE
# IT PRINTS A IS EQUAL TO B
```

A is Equal To B

In [69]:
```python
a = 5
b = 10

if a > b:
    print("A is Greater than B")

elif a == b:
    print(" A is Equal To B")

else:
    print("A is Lesser than B")

# FOR THIS AS A < B, THE IF CONDITION IS NOT SATISFIED, THE ELIF CONDITION IS NO
# IT PRINTS A IS LESSER THAN B
```

A is Lesser than B

NESTED IF STATEMENT

In [85]:
```python
c = 60

if c > 56:
  print("C is Gretaer")
  if c > 20:
    print("C is Greater")

else:
    print("C is less")

# FOR THIS AS C > 56 & 20, THE IF CONDITION IS SATISFIED, THE NESTED IF CONDITIO
# IT PRINTS C is Gretaer
# IT PRINTS C is Gretaer
```
```
C is Gretaer
C is Greater
```

In [89]:
```python
c = 7

if c > 56:
  print("C is Gretaer")
  if c > 20:
    print("C is Greater")

else:
    print("C is less")

# FOR THIS AS C < 56 & 20, THE IF CONDITION IS NOT SATISFIED, THE NESTED IF COND
# IT PRINTS C is less
```
```
C is less
```

FOR LOOP

In [100…
```python
r = 'hello World!'

for i in range(5):
    print(r)
```
```
hello World!
hello World!
hello World!
hello World!
hello World!
```