In [1]:

```
rain = True
if rain:
print("Take Umberalla")
```

```
  File "<ipython-input-1-54a51e39b0d4>", line 3
    print("Take Umberalla")
        ^
IndentationError: expected an indented block
```

In [2]:

```
rain = False
if rain:
    print("This will never execute")
```

```
Take Umberalla
```

In [3]:

```
rain = False
if rain:
    print("This will never execute")
```

In [4]:

```
rain = False
if rain:
    print("This will never execute")
print("If not executed")
```

```
If not executed
```

In [6]:

```
rain = False
if rain:
    print("This will never execute")
print("If not executed")
```

```
If not executed
```

In [7]:

```
age = 17
if age = 17:
    print("Sorry , You are not eligible")
```

```
  File "<ipython-input-7-45ff6a67a4eb>", line 2
    if age = 17:
           ^
SyntaxError: invalid syntax
```

In [8]:

```
age = 17
if age <= 18:
    print("Sorry , You are not eligible")
```

```
Sorry , You are not eligible
```

In [9]:

```
age = 17
if age < = 18:
    print("Sorry , You are not eligible")
```

```
  File "<ipython-input-9-2a7ebfaf6b11>", line 2
    if age < = 18:
           ^
SyntaxError: invalid syntax
```

In [10]:

```
age = 17
if age <= 18:
    print("Sorry , You are not eligible")
```

```
Sorry , You are not eligible
```

In [11]:

```
age = 50
if age <= 18:
    print("Sorry , You are not eligible")
```

In [12]:

```
if 0: #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [13]:

```
if 0.0: #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [14]:

```
if 0+12j: #False
    print("This will never execute")
print("if not executed")
```

```
This will never execute
if not executed
```

In [15]:

```
if 0+0j: #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [16]:

```
if "": #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [17]:

```
if []: #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [18]:

```
if (): #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [19]:

```
if {}: #False
    print("This will never execute")
print("if not executed")
```

```
if not executed
```

In [20]:

```
if "a": #False
    print("This will never execute")
print("if not executed")
```

```
This will never execute
if not executed
```

In [21]:

```
print("Welcome to If stmnt")
age = int(input("Enter Your age:"))
if age >= 18: #Condition
    print("Congrats , You are eligible")
else:
    print("Sorry, You are not eligible")
print("End")
```

```
Welcome to If stmnt
Enter Your age:17
Sorry, You are not eligible
End
```

In [22]:

```
print("Welcome to If stmnt")
age = int(input("Enter Your age:"))
if age >= 18: #Condition
    print("Congrats , You are eligible")
else:
    print("Sorry, You are not eligible")
print("End")
```

```
Welcome to If stmnt
Enter Your age:50
Congrats , You are eligible
End
```

In [23]:

```
10 ==10
```

Out[23]:

```
True
```

In [24]:

```
10 !=10
```

Out[24]:

```
False
```

In [25]:

```
10 == 10 and 10 <10
```

Out[25]:

```
False
```

In [26]:

```
10 < 12 and 12 < 15
```

Out[26]:

```
True
```

In [27]:

```
if (10 < 12 and 12 < 15):
    print("True")
else:
    print("False")
```

```
True
```

In [28]:

```
if (10 < 9 and 12 < 15):
    print("True")
else:
    print("False")
```

```
False
```

In [29]:

```
if (10 < 9 or 12 < 15):
    print("True")
else:
    print("False")
```

```
True
```

In [30]:

```
print("Start")
num = int(input("Enter a Integer"))
if num%2 == 0:
    print(f"{num} is Even")
else:
    print(f"{num} is Odd")
print("End")
```

```
  File "<ipython-input-30-a01a1005d3d1>", line 4
    print(f"{num} is Even")
                          ^
SyntaxError: invalid syntax
```

In [31]:

```
print("Start")
num = int(input("Enter a Integer"))
if num%2 == 0:
    print("{} is Even".format(num))
else:
    print("{} is Odd".format(num))
print("End")
```

```
Start
Enter a Integer25
25 is Odd
End
```

In [33]:

```
print("Start")
num = int(input("Enter a Integer"))
if num%2 == 0:
    print("{} is Even".format(num))
else:
    print("{} is Odd".format(num))
print("End")
```

```
Start
Enter a Integer100
100 is Even
End
```

leap Year 2008 / 4 == 0

Given number is less than 10

Given Number is neg or pos

Given num div by <?>

In [36]:

```
# Greatest among three numbers
print("Start")
num1 = int(input("Enter a Integer"))
num2 = int(input("Enter a Integer"))
num3 = int(input("Enter a Integer"))

if num1 > num2:
    if num1 > num3:
        print("{} is Greater Than {}, {}".format(num1,num2,num3))
    else:
        print("{} is Greater Than {}, {}".format(num3,num1,num2))
else:
    if num2 > num3:
        print("{} is Greater Than {}, {}".format(num2,num3,num1))
    else:
        print("{} is Greater Than {}, {}".format(num3,num1,num3))
print("End")
```

```
Start
Enter a Integer20
Enter a Integer100
Enter a Integer10
100 is Greater Than 10, 20
End
```

smallest among three numbers

In [ ]:

```
# Greatest among three numbers
print("Start")
num1 = int(input("Enter a Integer"))
num2 = int(input("Enter a Integer"))
num3 = int(input("Enter a Integer"))

if num1 > num2:
    else num1 > num3:
        print("{} is Greater Than {}, {}".format(num1,num2,num3))
    else:
        print("{} is Greater Than {}, {}".format(num3,num1,num2))
else:
    if num2 > num3:
        print("{} is Greater Than {}, {}".format(num2,num3,num1))
    else:
        print("{} is Greater Than {}, {}".format(num3,num1,num3))
print("End")
```

var1 = "Hello" #10.10 , "", {}, [], () if (type(var1) == int): print("Type of the variable is Integer") elif (type(var1) == float): # else if ,,,, elif print("Type of the variable is Float") elif (type(var1) == complex): print("Type of the variable is Complex") elif (type(var1) == bool): print("Type of the variable is Bool") elif (type(var1) == str): print("Type of the variable is String") elif (type(var1) == tuple): print("Type of the variable is Tuple") elif (type(var1) == dict): print("Type of the variable is Dictionaries") elif (type(var1) == list): print("Type of the variable is List") else: print("Type of the variable is Unknown")

Name of days by number

Name of months by number

Calculator + , - , * , /

1 for + 2 for - 3 for * 4 for /

Thank You !

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