In [1]:

```python
# if else Example-2
# Check given number is a Positive OR Not
t1 = input("Enter Number: ")
t2 = int(t1)
if (t2 > 0):
    print("Postive",end= '')
else:
        print("Negative",end ='')


print(' Number')
```

```
Enter Number: 45
Postive Number
```

In [14]:

```python
print("one")# print() default executed "\n" at the end of print
print('two',end= "15444.51545")
```

```
one
two15444.515451 2 3 4 5
```

In [21]:

```python
print('1','2','3','4','5',sep = ' <---> ')
```

```
1 <---> 2 <---> 3 <---> 4 <---> 5
```

In [22]:

```python
# end -> perform operation at end of print()
# sep -> perform operation b/w values with in print()
```

In [28]:

```python
print("one" ,"two" ,sep ='<-I am Sep->',end="<-I am End->")
```

```
one<-I am Sep->two<-I am End->
```

In [33]:

```python
print(end="\n")
```

In [36]:

```python
# if elif else Example
# Expected Value
final = 45
check = int(input("Which number U Expected? "))
if check == final:
    print('U Win...')
elif check > final:
    print('Not Higest')
else:
    print('Not Lowest ')
```

```
Which number U Expected? 45
U Win...
```

In [46]:

```python
# Nested if Example
# Grade Ex

grade = int(input("Enter your Grade= "))
if grade >= 60:
    print('Passing Grade of:')
    if grade >= 90:
        print("A")
    elif grade >= 80:
        print('B')
    elif grade >= 70:
        print('C')
    elif grade >= 60:
        print('D')
else:
    print('Failing Grade...')
```

```
Enter your Grade= -46
Failing Grade...
```

In [49]:

```python
# Nested if Example
# Grade Ex

grade = int(input("Enter your Grade= "))
if grade >= 0 and grade <= 100:
    if grade >= 60:
        print('Passing Grade of:')
        if grade >= 90:
            print("A")
        elif grade >= 80:
            print('B')
        elif grade >= 70:
            print('C')
        elif grade >= 60:
            print('D')
    else:
        print('Failing Grade...')
else:
    print("Please Enter Valid Grade")
```

```
Enter your Grade= 101
Please Enter Valid Grade
```

Loops/Iterations

for , while

C Lan for Synatx:-

for(intialize, condition, increment/decrement)

python for Syntax:-

for have minmum 1 Arg , maxmum 3 Arg for(Arg1) -> (default =0 ,Condition, default incremnet by 1)
for(Arg1,Arg2) -> (intialization, Condition, default incremnet by 1) for(Arg1,Ag2,Ag3) -> (intial, condi, stepcount)

In [53]:

```python
# print  10 numbers
for i in range(10+1): #n-1
    print(i, end=',')
```

```
0,1,2,3,4,5,6,7,8,9,10,
```

In [55]:

```python
for j in range(1,5+2+3+1):
    print(j,end=' ')
```

```
1 2 3 4 5 6 7 8 9 10
```

In [62]:

```python
for mn in range(5,1,-1):
    print(mn)
```

```
5
4
3
2
```

In [66]:

```python
for m in range(1,200,4):
    print(m , end =' ')
```

```
1 5 9 13 17 21 25 29 33 37 41 45 49 53 57 61 65 69 73 77 81 85 89 93 97 101
105 109 113 117 121 125 129 133 137 141 145 149 153 157 161 165 169 173 177
181 185 189 193 197
```

In [67]:

```python
# decresing numbers from 20 to 2
for i in range(20,1,-1):
    print(i,end = "\t")
```

```
20      19      18      17      16      15      14      13      12      11
10      9       8       7       6       5       4       3       2
```

In [71]:

```python
# print string index by index using for loop
language = 'marati'
for char in range(len(language)):
    print(language[char], end = ' ')
```

```
m a r a t i
```

In [74]:

```python
# for can working without range() using iterable data(data have indexing)
for a in "abcdefghijklmnop...":
    print(a)
```

a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
.
.
.

In [ ]:

```python

```