Conditional Statments

In [2]:

```python
# if elif
age=15
if age<13:
    print("Not a Teenager")
elif age>18:
    print("Teenager")
else:
    print("Nothing")
```

Nothing

In [5]:

```python
# Example -2
per=int(input("Enter Per: "))
if (per>=90):
    print("A")
elif per>=80:
    print('B')
elif per>=70:
    print('C')
elif per>=60:
    print('D')
else:
    print('Faild')
```

Enter Per: 50
Faild

In [6]:

```python
# Nested If Example
# if condition1:
#     if condition2:
#         if condition3:
```

In [9]:

```python
age=int(input("Enter Age: "))
if (age<13):
    print("not a teenager")
else:
    if (age<21):
        print("not eligible for marriage")
    else:
        print("eligible for marriage")
```

Enter Age: 22
eligible for marriage

Iterations

- for Loop
- while Loop

In [10]:

```python
# for (initial,condition,increment/decrement)
# for (condition) # default intial value is 0
# for (intial,condition)
```

In [12]:

```python
# print 5 numbers using for loop
for temp in range(5): # condition is always n-1
    print(temp)
```

```
0
1
2
3
4
```

In [18]:

```python
# print 1 to 5 numbers using for loop
for iam in range(1,5+1):
    print(iam,end=' ')  # automaticall \n is excued at end of print()
```

```
1 2 3 4 5
```

In [23]:

```python
# print numbers from  20 to 10 using for loop
for j in range(20,9,-1):
    print(j)
```

```
20
19
18
17
16
15
14
13
12
11
10
```

In [24]:

```python
# print even numbers b/w 2 dynamic integers
a,b = int(input("Enter A value: ")),int(input("Enter B Value: "))
for i in range(a,b+1):
    if i%2==0:
        print(i,end= '\t')
```

```
Enter A value: 12
Enter B Value: 33
12      14      16      18      20      22      24      26      28      30
32
```

In [25]:

```python
for i in "Hello I am Here!":
    print(i,end=" ")
```

```
H e l l o   I   a m   H e r e !
```

In [28]:

```python
temp=[1,2,3,4,5]
for job in range(len(temp)):
    print(temp[job],end=" ")
```

```
1 2 3 4 5
```

In [37]:

```python
for i,j,h in zip("12345678","narayana","indupriy"):
    print(i,j,h)
```

```
1 n i
2 a n
3 r d
4 a u
5 y p
6 a r
7 n i
8 a y
```

In [38]:

```python
# While Loop
# synatax of While Loop
#   intialization
#   while condition:
#       statement1
#       statement2
#       . . .. ..
```

In [41]:

```python
# print 10 numbers using while loop
num = 1
while num<11:
    print(num,end=" ")
    #num=num+1          # infinate loop
```

. . .

In [43]:

```python
# print numbers from 50 to 30 using while loop
temp =50
while (temp>=30):
    print(temp,end=" ")
    temp-=1
```

50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30

In [44]:

```python
# Infinate Loop
while True:
    print("hello",end=" ")
```

. . .

In [47]:

```python
# Infinate Loop-2
while -7:      # 1 to any positive number (or)  -1 to any negative number
    print("Infinate")
```

. . .

In [50]:

```python
# infinate loop-3
while 56.32:  #
    print('hi')
```

. . .

In [51]:

```python
a= "89.63"
while a:
    print('infinate',end=" ")
```

. . .

In [ ]:

```python
# infinate loop cases are True,value or variables without empty,not 0,without incre/decre i
# Condition faild cases are False,empty variables or values, 0
```

In [52]:

```python
while False:
    print("Check me")
```

In [53]:

```python
while 0:
    print("hello")
```

In [54]:

```python
while "":
    print("hello")
```

In [55]:

```python
i=[]
while i:
    print("hi")
```

Jumping Statments

- break
- continue
- pass

In [58]:

```python
# print numbers using dynamic integer with range of 1 to 10 using break
n =int(input("Enter N value= "))
for i in range(1,5+5+1):
    if i==n+1:
        break  # when break is executed loop will terminated
    print(i,end=",")
```

```
Enter N value= 6
1,2,3,4,5,6,
```

In [59]:

```python
# continue Example
# print even Numbers from  2 dynamic integers using continue
x=int(input("Enter x: "));y=int(input('Enter Y:'))
for mn in range(x,y+1):
    if mn%2!=0:
        continue # skip the Iteration
    else:
        print(mn,end=" ")
```

```
Enter x: 56
Enter Y:88
56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88
```

In [ ]:

```
'''
# pass statment Example
# pass is a None/Null Statment

# C language
for (i=0;i<10;i++){

}


# Python Language
for i in range(1,20):

'''
```

In [62]:

```
# if u want to create empty functions/loops/conditional statments/class u need to use "pass
#        statment for purpose of the purpose of overwrite the empty statments
for i in range(1,20):
    pass     # Null statment
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

In [65]:

```
# End VS Sep in print()

# end --> overwrite the default '\n' at the end of print()
print("first line",end="I am End")
print("second line")
```

first lineI am Endsecond line

In [69]:

```
# sep --> seperate the multiple values/arguments in print()
print("hi","hello",123,4125.325,sep=",") # print() have muliple arg then only sep executed
```

hi,hello,123,4125.325

In [70]:

```
print("programming",sep="<------>")
```

programming

In [ ]: