## **Nested Loops:**

Nested Loops: writing Loop inside another loop while | for...loop

while with in a while for with in a while





while with in a for for with in a for

## for o in range(1,3):

```
for i in range(1,3):
....print("Sai")
print(" ")
```

```
Ex 2:
```

```
import time
for o in range(1,4):
    for i in range(1,5):
        time.sleep(.2)
        print("* ",end=' ')

print(" ")
```

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**Python** 

```
if o=3
                       if o=2
if o=1
                                              for i in range(1,o+1):
                       for i in range(1,o+1):
for i in range(1,o+1):
                                              ....print("* ",end=' ')
                       ....print("*",end=' ')
....print("*",end=' ')
             for o in range(1,4):
                for i in range(1,o+1):
                    print("*",end=' ')
                print(" ")
for o in range(1,4):
     for i in range(1,5):
          print(o)
     print(" ")
for o in range(3,0,-1):
...for i in range(1,o+1):
  ....print("* ",end=' ')
                                    o=1 +
  print(" ")
import time
n=int(input("Enter a number "))
for o in range(n,0,-1):
  for i in range(1,o+1):
    time.sleep(.1)
```

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**Python** 

```
print("* ",end=' ')
  print(" ")
              2.
                         3.
              333
              22
   123
                         55555
                                                    8.
                 6.
                               7.
                  123
                 456
                 789
                               20
                                           22
import time
n=int(input("Enter a number ")) #n=3
for i in range(1,n+1):
  time.sleep(.2)
  for j in range(1,11):
    time.sleep(.1)
    print(i,"x ",j,"= ",i*j)
  print("-----")
```