In [8]:
```
adj = ["red","big","tasty"]
fruits =["apple","mango","kiwi"]
for x in adj:
    for y in fruits:
        print(x, y)
```

```
red apple
red mango
red kiwi
big apple
big mango
big kiwi
tasty apple
tasty mango
tasty kiwi
```

In [1]:
```
for i in range(10,0,-2):
    print(i)
```

```
10
8
6
4
2
```

In [6]:
```
b=12
#x=str(b)
print(str(b))
```

```
12
```

In [8]:
```
a=7
b=2
c=a//b
d=a/b
print(c)
print(d)
```

```
3
3.5
```

In [4]:
```
for i in range(10,100,2):
    if i==64:
        print(i)
else:
    print("printing inside for-else")
```

```
64
printing inside for-else
```

In [7]:
```
# List slicing in Python
my_list = ['p','r','o','g','r','a','m','m','i','n','g']
# elements 3rd to 5th
print(my_list[2:5])
```

```
['o', 'g', 'r']
```

In [8]:
```
# elements beginning to 4th
print(my_list[:-5])
```

```
['p', 'r', 'o', 'g', 'r', 'a']
```

In [9]:
```
# elements 6th to end
print(my_list[5:])
```

```
['a', 'm', 'm', 'i', 'n', 'g']
```

In [10]:
```
# elements beginning to end
print(my_list[:])
```

```
['p', 'r', 'o', 'g', 'r', 'a', 'm', 'm', 'i', 'n', 'g']
```

In [3]:
```
n=5
i=1
while i<=10:
    r=n*i
    print("%d x %d  = %d" %(n,i,r))
    i+=1
```

```
5 x 1  = 5
5 x 2  = 10
5 x 3  = 15
5 x 4  = 20
5 x 5  = 25
5 x 6  = 30
5 x 7  = 35
5 x 8  = 40
5 x 9  = 45
5 x 10  = 50
```

In [12]:
```
rows = int(input('Enter the number of rows'))
# outer loop
for i in range(rows):
    # nested loop
    for j in range(i):
        # display number
        print("*", end=' ')
    # new line after each row
    print('')
```

```
Enter the number of rows5

*
* *
* * *
* * * *
```

In [13]:
```
rows = int(input('Enter the number of rows'))
# outer loop
for i in range(rows):
    # nested loop
    for j in range(i):
        # display row value
        print(i, end=' ')
    # new line after each row
    print('')
```

```
Enter the number of rows5

1
2 2
3 3 3
4 4 4 4
```

In [15]:
```
rows = int(input('Enter the number of rows'))
# outer loop
for i in range(rows):
    # nested loop
    for j in range(1,i+1):
        # display column value
```

```
        print(j, end=' ')
    # new line after each row
    print('')
```

```
Enter the number of rows5

1
1 2
1 2 3
1 2 3 4
```

In [8]:
```
i=0
while i<=50:

    i+=5
    if i >50:
        break
    else:
        print(i)
```

```
5
10
15
20
25
30
35
40
45
50
```

In [ ]:
```
i=0
while i<=50:
    if i ==40:
        #print(i)
        continue
    #else:
    print(i)
    i+=5
```

```
0
5
10
15
20
25
30
35
```

In [ ]:
```
for i in range(5):
    if i == 3:
        continue
    print(i)
```

In [ ]:
```
a = 10
b = 20
if a>b:
    pass
else:
    print("b<a")
```

In [1]:
```
l1=[1,2,3,4,5]
print(l1[-1])
```

```
5
```

In [6]:
```
# List slicing in Python
my_list = [1,2,3,4,5,6,7,8,9,10,11]
# elements 3rd to 5th
print(my_list[2:5])
```

```
[3, 4, 5]
```

In [9]:
```
# elements beginning to 6th
print(my_list[:-5])
```

```
[1, 2, 3, 4, 5, 6]
```

In [26]:
```
# elements 6th to end
print(my_list[-3:-1])
```

```
[9, 10]
```

In [11]:
```
# elements beginning to end
print(my_list[:])
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]
```

In [27]:
```
my_list[4]=89
print(my_list)
```

```
[1, 2, 3, 4, 89, 6, 7, 8, 9, 10, 11]
```

In [28]:
```
my_list[4:8]=[89,56,78,67]
print(my_list)
```

```
[1, 2, 3, 4, 89, 56, 78, 67, 9, 10, 11]
```

In [8]:
```
list1 = ['physics', 'chemistry', 1997, 2000];
print(list1)
```

```
['physics', 'chemistry', 1997, 2000]
```

In [4]:
```
del list1[2]
print("After deleting value at index 2 : ")
print(list1)
```

```
After deleting value at index 2 :
['physics', 'chemistry', 2000]
```

In [7]:
```
print(max(my_list))
```

```
11
```

In [16]:
```
l1=[12,34,56,23,67,23,58,11,69,90,45]
print(max(l1))
```

```
90
```

In [11]:
```
print(min(l1))
```

```
11
```

In [17]:
```
reversed_list = list(reversed(l1))
print(reversed_list)
```

```
[45, 90, 69, 11, 58, 23, 67, 23, 56, 34, 12]
```

In [23]:
```
l1.remove(78)
print(l1)
```

```
[12, 34, 56, 23, 67, 23, 58, 11, 69, 90, 45]
```

In [25]:
```
l1.insert(5,78)
print(l1)
```

```
[12, 34, 56, 23, 67, 78, 23, 58, 11, 69, 90, 45]
```

In [26]:
```
l1.insert(9,18)
l1
```

Out[26]:
```
[12, 34, 56, 23, 67, 78, 23, 58, 11, 18, 69, 90, 45]
```

In [27]:
```
name1="Anu Arora"
name1
```

Out[27]:
```
'Anu Arora'
```

In [28]:
```
print(name1)
```

```
Anu Arora
```

In [2]:
```
l1=[12,34,56,23,67,23,58,11,69,90,45]
l1.sort()
print(l1)
```

```
[11, 12, 23, 23, 34, 45, 56, 58, 67, 69, 90]
```

In [ ]:

In [5]:
```
lst = []

# number of elements as input
n = int(input("Enter number of elements : "))

# iterating till the range
for i in range(0, n):
    ele = int(input())
    # adding the element
    lst.append(ele)

print(lst)
```

```
Enter number of elements : 5
1
4
2
5
3
[1, 4, 2, 5, 3]
```

In [6]:
```
print("Original List:", lst)

lst[0], lst[-1] = lst[-1], lst[0]

#updated list
print("List after swapping:", str(lst))
```

```
Original List: [1, 4, 2, 5, 3]
List after swapping: [3, 4, 2, 5, 1]
```

In [ ]: