In [4]:

```python
#PYTHON format()
name="Anju"
age=28
txt="My name is {},age is {}"
print(txt.format(name,age))
```

My name is Anju,age is 28

In [5]:

```python
name="Anju"
age=28
txt="My name is {1},age is {0}"
print(txt.format(name,age))
```

My name is 28,age is Anju

In [8]:

```python
#input method
x=int(input("enter a numner:"))
print(x)
```

enter a numner:3
3

list

In [9]:

```python
#collection datatype
list1=['a','b','c']
list2=[1,2,3]
list3=[True,False]
list4=['a',1,True]
print(list1)
```

['a', 'b', 'c']

In [10]:

```python
print(len(list1))
```

3

In [12]:

```python
print(list1[0])
print(list2[2])
```

a
3

In [13]:

```python
print(list1[-1])
```

c

In [14]:

```python
print(list1[0:2])
```

['a', 'b']

In [15]:

```python
list5=[1,2,3,4,1]
print(list5)
```

[1, 2, 3, 4, 1]

In [16]:

```python
#list changeable
list1[0]='A'
```

In [17]:

```python
print(list1)
```

['A', 'b', 'c']

In [18]:

```python
list1[1:]=['B','C']
print(list1)
```

['A', 'B', 'C']

In [19]:

```python
#to add items

list6=list1+list2
print(list6)
```

['A', 'B', 'C', 1, 2, 3]

In [20]:

```python
list1
```

Out[20]:

['A', 'B', 'C']

In [21]:

```python
list1.append('D')
print(list1)
```

['A', 'B', 'C', 'D']

In [22]:

```python
list1.extend(list2)
print(list1)
```

['A', 'B', 'C', 'D', 1, 2, 3]

In [23]:

```python
#remove
list1.remove('D')
print(list1)
```

['A', 'B', 'C', 1, 2, 3]

In [24]:

```python
list1.pop(0)
print(list1)
```

['B', 'C', 1, 2, 3]

In [25]:

```python
list1.pop()
print(list1)
```

['B', 'C', 1, 2]

In [26]:

```python
del list1[0]
print(list1)
```

['C', 1, 2]

In [27]:

```python
list1.insert(0,'B')
print(list1)
```

['B', 'C', 1, 2]

In [28]:

```python
list1.clear()
print(list1)
```

[]

In [29]:

```python
del list1
```

In [30]:

```python
print(list1)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call las
t)
~\AppData\Local\Temp\ipykernel_6984\1424600876.py in <module>
----> 1 print(list1)

NameError: name 'list1' is not defined
```

In [31]:

```python
list1=list(('a','b','c'))
print(list1)
```

```
['a', 'b', 'c']
```

tuple

In [32]:

```python
a=('a','b',1,2)
print(a)
```

```
('a', 'b', 1, 2)
```

In [33]:

```python
print(type(a))
```

```
<class 'tuple'>
```

In [35]:

```python
b=('b',)
print(type(b))
```

```
<class 'tuple'>
```

In [36]:

```python
print(len(a))
```

```
4
```

In [37]:

```python
print(a[1])
```

```
b
```

In [38]:

```python
a
```

Out[38]:

```
('a', 'b', 1, 2)
```

In [39]:

```python
c=list(a)
```

In [40]:

```python
c
```

Out[40]:

```
['a', 'b', 1, 2]
```

In [41]:

```python
c[0]='A'
c
```

Out[41]:

```
['A', 'b', 1, 2]
```

In [42]:

```python
a=tuple(c)
a
```

Out[42]:

```
('A', 'b', 1, 2)
```

In [43]:

```python
print(type(a))
```

```
<class 'tuple'>
```

In [44]:

```python
a+b
```

Out[44]:

```
('A', 'b', 1, 2, 'b')
```

In [ ]: