```
In [1]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
print(type(a))
<class 'list'>
In [2]:
b=list()
print(type(b))
<class 'list'>
In [3]:
b=[]
print(b)
[]
In [4]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
print(type(a))
<class 'list'>
In [5]:
a=["Pune", "Mumbai", "Satara", "Sangli", "Latur"]
a.append("Kolhapur")
Out[5]:
['Pune', 'Mumbai', 'Satara', 'Sangli', 'Latur', 'Kolhapur']
In [6]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.insert(1, "Kolhapur")
а
Out[6]:
['Pune', 'Kolhapur', 'Mumbai', 'Satara', 'Sangli', 'Latur']
```

```
In [8]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.insert(-2,"Kolhapur")
а
Out[8]:
['Pune', 'Mumbai', 'Satara', 'Kolhapur', 'Sangli', 'Latur']
In [9]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.insert(-1,"Kolhapur")
Out[9]:
['Pune', 'Mumbai', 'Satara', 'Sangli', 'Kolhapur', 'Latur']
In [10]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.append("Kolhapur")
Out[10]:
['Pune', 'Mumbai', 'Satara', 'Sangli', 'Latur', 'Kolhapur']
In [11]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.remove("Pune")
а
Out[11]:
['Mumbai', 'Satara', 'Sangli', 'Latur']
In [12]:
ab="Satara"
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.remove(ab)
а
Out[12]:
['Pune', 'Mumbai', 'Sangli', 'Latur']
```

```
In [13]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
a.pop()
а
Out[13]:
['Pune', 'Mumbai', 'Satara', 'Sangli']
In [16]:
a=["Pune","Mumbai","Satara","Sangli","Latur"]
ab=a.index("Satara")
Out[16]:
2
Working with For Loop
In [17]:
ab="Satara"
for x in ab:
    print(x)
S
a
t
а
a
In [19]:
ab="Satara"
for x in ab:
    print('Data Science',x)
```

Data Science S Data Science a Data Science t Data Science a Data Science r Data Science a

```
In [21]:
for x in range(6):
    print("Machine Learning",x)
Machine Learning 0
Machine Learning 1
Machine Learning 2
Machine Learning 3
Machine Learning 4
Machine Learning 5
In [ ]:
for x in range(5):
    ab=input("Enter the Student name: ")
In [22]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    print(x)
Sachin
Virat
Hardik
Sumit
In [24]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    for y in x:
        print("Data Science",y)
Data Science S
Data Science a
Data Science c
Data Science h
Data Science i
Data Science n
Data Science V
Data Science i
Data Science r
Data Science a
Data Science t
Data Science H
Data Science a
Data Science r
Data Science d
Data Science i
Data Science k
Data Science S
Data Science u
Data Science m
Data Science i
Data Science t
```

```
In [25]:
name=["Sachin","Virat","Hardik","Sumit"]
print(len(name))
4
In [26]:
for x in range(len(name)):
    print("Machine Leanring ",x)
Machine Leanring 0
Machine Leanring 1
Machine Leanring 2
Machine Leanring 3
In [27]:
for x in range(5):
    print("Machine Learning",x)
Machine Learning 0
Machine Learning 1
Machine Learning 2
Machine Learning 3
Machine Learning 4
In [30]:
for x in range(1,5):
    a=10
    ab=a+x
    print(ab,"---",x)
11 --- 1
12 --- 2
13 --- 3
14 --- 4
In [31]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    print(name[-1])
Sumit
Sumit
Sumit
```

Sumit

```
In [32]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    print(x[-1])
n
t
k
t
In [33]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    print(x[0])
S
٧
Н
S
In [34]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    ab=x+"Veer"
    print(ab)
SachinVeer
ViratVeer
HardikVeer
SumitVeer
In [36]:
name=["Sachin","Virat","Hardik","Sumit"]
for x in name:
    ab=x[:-2]
    ab1=ab+'veer'
    print(ab,"---after----",ab1)
Sach ---after--- Sachveer
Vir ---after---- Virveer
Hard ---after---- Hardveer
Sum ---after--- Sumveer
In [43]:
name=["Sachin","Virat","Hardik","Sumit"]
```

```
In [38]:
school=[]
for x in range(5):
    name=input("Enter the Studnet name: ")
    school.append(name)
print(school)
Enter the Studnet name: Sahin
Enter the Studnet name: Sumit
Enter the Studnet name: Sahi;
Enter the Studnet name: Seema
Enter the Studnet name: Sumit
['Sahin', 'Sumit', 'Sahi;', 'Seema', 'Sumit']
In [42]:
school=[]
for x in range(3):
    name=input("Enter the Studnet name: ")
    school.append(name)
# print(school)
Enter the Studnet name: jhgjh
Enter the Studnet name: jlk
Enter the Studnet name: khk
In [44]:
name=["Sachin","Virat","Hardik","Sumit"]
name.remove("Sachin")
In [45]:
name
Out[45]:
['Virat', 'Hardik', 'Sumit']
In [46]:
name.pop()
name
Out[46]:
```

['Virat', 'Hardik']

```
In [50]:

for x in range(4):
    print("Data")

Data
Data
Data
Data
Data
In []:
```