```
a=[1,2,3,'game']
 In [2]:
         print(type(a))
         print(len(a))
         <class 'list'>
 In [3]:
         print(a[2])
         3
 In [4]:
         print(a[3])
         game
 In [5]:
         b=[1.5,'ajith',5,'*']
         print(type(b))
         print(len(a))
         <class 'list'>
 In [6]:
         print(b[0])
         1.5
         print(b[3])
 In [7]:
 In [8]:
         c=[]
         print(type(c))
         <class 'list'>
 In [9]:
         c.append(6)
         print(c)
         [6]
         keelist2=[2,3,4,5]
In [10]:
         print(keelist2)
         print(len(keelist2))
         [2, 3, 4, 5]
In [13]:
         keelist3=[2,"two",True]
         print(keelist3)
         print(len(keelist3))
         print(type(keelist3))
         [2, 'two', True]
         <class 'list'>
         poplist=[]
In [16]:
         poplist.append(2)
         poplist.append('comali')
         poplist.append(True)
         print(type(poplist))
         print(len(poplist))
         print(poplist)
         print(poplist[2])
         print(len(poplist[1]))
```

```
<class 'list'>
         [2, 'comali', True]
         True
         a=[]
In [17]:
          print(type(a))
         <class 'list'>
In [18]: | print(len(a))
         a.append('ak')
In [19]:
          a.append(2)
          a.append(True)
          print(a)
         ['ak', 2, True]
In [20]: print(len(a))
In [21]: print(a[2])
         True
In [22]: print(len(a[0]))
In [24]:
         b=[1,2,'as']
          print(b)
         [1, 2, 'as']
In [25]:
         c=a+b
          print(c)
         ['ak', 2, True, 1, 2, 'as']
In [26]:
         for i in c:
              print(i)
         ak
         2
         True
         1
         2
In [27]: c.insert(1,'hello')
         print(c)
         ['ak', 'hello', 2, True, 1, 2, 'as']
In [28]: c.pop(2)
          print(c)
         ['ak', 'hello', True, 1, 2, 'as']
In [29]: c.extend(a)
          print(a)
         ['ak', 2, True]
```

```
In [30]:
          for i in range(5):
              print(i)
          0
          1
          2
          3
          4
In [32]: for i in range(5):
              print(i*i)
          0
          1
          4
          9
          16
In [34]: for i in a:
              print(i)
          ak
          2
          True
In [35]:
         for i in a:
              print(i,a.index(i))
          ak 0
          2 1
          True 2
          i=0
In [36]:
          while i<len(a):</pre>
              print(a[i])
              i=i+1
          print(a)
          ak
          2
          True
          ['ak', 2, True]
In [38]: a=[2,'hari',True]
          print(a)
          [2, 'hari', True]
          S1={'tea','boost','milk'} print(s1)
          s2={'ak','jd','vj','milk'}
In [39]:
          print(s2)
          {'vj', 'ak', 'jd'}
In [40]: s1={'tea','boost','milk'}
          print(s1)
          {'boost', 'milk', 'tea'}
In [41]: print(s1.union(s2))
          {'boost', 'tea', 'jd', 'vj', 'ak', 'milk'}
          s2.append('milk')
In [42]:
          print(s2)
```

```
AttributeError
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_6764\3406275771.py in <module>
         ---> 1 s2.append('milk')
               2 print(s2)
         AttributeError: 'set' object has no attribute 'append'
In [43]: print(s1.difference(s2))
         {'boost', 'milk', 'tea'}
In [44]: print(s2.difference(s1))
         {'vj', 'ak', 'jd'}
In [46]: t1=('ak','vj','dsp')
         print(t1)
         print(type(t1))
         ('ak', 'vj', 'dsp')
         <class 'tuple'>
In [47]: print(t1[2])
         dsp
In [48]: t2=(10)
         t3=(10,)
         print(type(t2))
         print(type(t3))
         <class 'int'>
         <class 'tuple'>
In [49]: | t4=tuple(("100","lingesh","rolex"))
         print(t4)
         print(type(t4))
         ('100', 'lingesh', 'rolex')
         <class 'tuple'>
 In [ ]:
```