```
a=[]
 In [1]:
         print(type(a))
         <class 'list'>
 In [2]: print(len(a))
 In [3]:
         a.append('ak')
         a.append(2)
         a.append(True)
         print(a)
         ['ak', 2, True]
 In [4]: print(len(a))
         print(a[2])
 In [5]:
         True
         print(len(a[0]))
 In [6]:
         b=[1,2,'as']
 In [7]:
         print(b)
         [1, 2, 'as']
         c=a+b
 In [8]:
         print(c)
         ['ak', 2, True, 1, 2, 'as']
In [9]: for i in c:
             print(i)
         ak
         2
         True
         1
         2
         as
In [10]: c.insert('hello')
         print(c)
                                                    Traceback (most recent call last)
         ~\AppData\Local\Temp\ipykernel_5344\2522467195.py in <module>
         ----> 1 c.insert('hello')
               2 print(c)
         TypeError: insert expected 2 arguments, got 1
In [12]: c.insert(1, 'hello')
         print(c)
         ['ak', 'hello', 2, True, 1, 2, 'as']
```

```
In [13]:
          c.pop()
          print(c)
          ['ak', 'hello', 2, True, 1, 2]
In [14]: c.pop(2)
          print(c)
          ['ak', 'hello', True, 1, 2]
In [15]: c.extend(a)
          print(c)
          ['ak', 'hello', True, 1, 2, 'ak', 2, True]
In [17]: for i in range(5):
              print(i)
          0
         1
          2
          3
          4
In [18]: for i in range(5):
              print(i*i)
         0
         1
          4
          9
         16
In [19]: for i in a:
              print(i)
          ak
         True
In [24]: for i in a:
              print(i,a.index(i))
          ak 0
          2 1
         True 2
In [25]: list=['ak','kl','ad']
          list.sort()
          print(list)
          ['ad', 'ak', 'kl']
In [26]: list=['ak','kl','ad']
          list.reverse()
          print(list)
          ['ad', 'kl', 'ak']
          i=0
In [28]:
          while i<len(a):</pre>
              print(a[i])
              i=i+1
          print(a)
```

```
ak
         2
         True
         ['ak', 2, True]
In [29]: s1={'sh','ak','kf'}
         print(s1)
         {'sh', 'ak', 'kf'}
In [31]: s2={'eu','jd','wh'}
         print(s2)
         {'jd', 'eu', 'wh'}
In [32]: print(s1.union(s2))
         {'jd', 'eu', 'wh', 'sh', 'ak', 'kf'}
In [33]: print(s1.intersection(s2))
         set()
         s3={'as','ak'}
In [34]:
         print(s3)
         {'ak', 'as'}
In [35]: print(s1.intersection(s3))
         {'ak'}
In [36]: print(s1.difference(s3))
         {'sh', 'kf'}
In [37]: print(s3.difference(s1))
         {'as'}
         t1=('ak','dhj','dh')
In [38]:
         print(t1)
         print(type(t1))
         ('ak', 'dhj', 'dh')
         <class 'tuple'>
         print(t1[0])
In [39]:
         ak
In [40]: t2=(10)
         print(type(t2))
         <class 'int'>
         t3=(10,)
In [41]:
         print(type(t3))
         <class 'tuple'>
In [42]: t4=(('dh','dh'))
         print(t4)
         print(len(t4))
         ('dh', 'dh')
```

In [ ]: