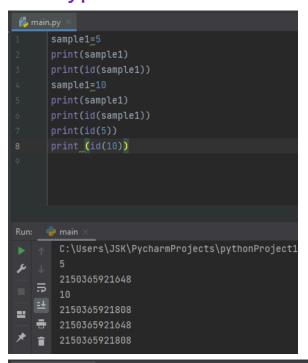
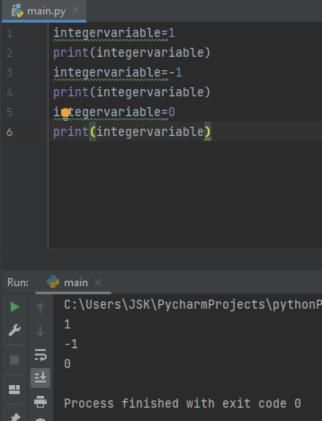
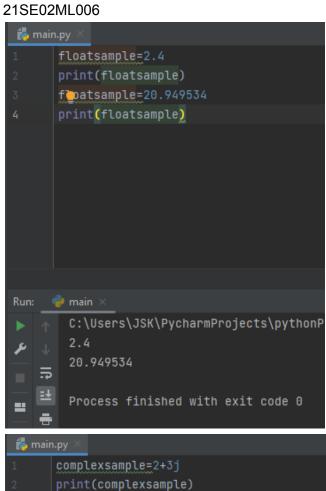
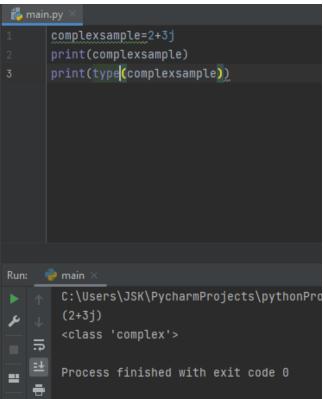
### **Practical**

(a) Create python script to demonstrate Numeric datatype.





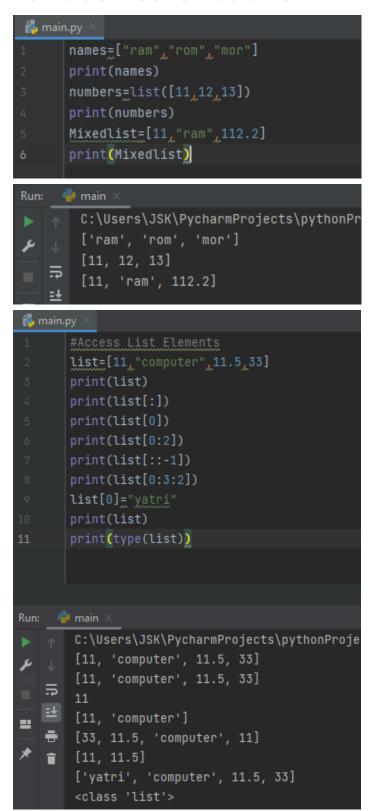




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# (b) Create python script to demonstrate list datatype.

## (c) Create python script to demonstrate various list functions.



#### 21SE02ML006

```
🛵 main.py
      list=[11,"computer",11.5,33]
      print(list)
      print(list[:])
      print(list[0])
      print(list[0:2])
      print(list[::-1])
      print(list[0:3:2])
      C:\Users\JSK\PycharmProjects\pythonPro
> [11, 'computer', 11.5, 33]
      [11, 'computer', 11.5, 33]
       11
   [11, 'computer']
   🖶 [33, 11.5, 'computer', 11]
    1 [11, 11.5]
        Process finished with exit code 0
 nain.py
       list=[11, "computer",11.5,33]
       print(list)
       list[0]="yatri"
       print(list)
Run:
     👘 main
       C:\Users\JSK\PycharmProjects\pythonProj
       [11, 'computer', 11.5, 33]
يو
       ['yatri', 'computer', 11.5, 33]
   ⋾
       Process finished with exit code 0
```

print (merged Sample)

```
🚵 *a.py - C:/Users/student/Desktop/a.py (3.10.5)*
File Edit Format Run Options Window Help
samplelist=[11,22, "computer",14.5]
samplelist[1:3]=["Engeneer", "Proud", 44.4]
print(samplelist)
sample mixed list=["Computer",[11,22,33], True]
print(sample mixed list)
print(sample mixed list[1][2])
print(sample mixed list[0][2])
samplelist=[11, "yatri", "yatrath", "yuvraj", 44.5,55]
del samplelist[3] #delete Element at Index 3
print(samplelist)
del samplelist[2:4]
print(samplelist)
del samplelist #delete whole list
print(samplelsit)
Page 101 Shell 3.10.5
                                                                     ×
File Edit Shell Debug Options Window Help
   Python 3.10.5 (tags/v3.10.5:f377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 bit ( ^
   AMD64)] on win32
   Type "help", "copyright", "credits" or "license()" for more information.
>>>
   ======= RESTART: C:/Users/student/Desktop/a.py ========
   [11, 'Engeneer', 'Proud', 44.4, 14.5]
   ['Computer', [11, 22, 33], True]
   33
   [11, 'yatri', 'yatrath', 44.5, 55]
   [11, 'yatri', 55]
   Traceback (most recent call last):
    File "C:/Users/student/Desktop/a.py", line 14, in <module>
       print(samplelsit)
   NameError: name 'samplelsit' is not defined
a.py - C:/Users/student/Desktop/a.py (3.10.5)
File Edit Format Run Options Window Help
samplelist1=[11,22,44,55,77]
samplelist2=[22,33,66]
merged Sample=samplelistl+samplelist2 #merge the lists
```

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```
lDLE Shell 3.10.5
                                                                                \Box
File Edit Shell Debug Options Window Help
    Python 3.10.5 (tags/v3.10.5:f377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 b
    AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>> sample=[11,22,33]
>>> copyList=sample.copy()
>>> print(copyList)
   [11, 22, 33]
>>> postion=sample.index(11)
>>> print (position)
    Traceback (most recent call last):
     File "<pyshell#4>", line 1, in <module>
       print (position)
    NameError: name 'position' is not defined. Did you mean: 'postion'?
>>> print(postion)
>>> print(len(sample)) #find number of elements in list
>>> print(min(sample)
          )
    11
>>> print(max(sample))
    33
>>> totalitem=sample.count(22)
>>> print("item count=",totalitem)
    item count= 1
>>> samplelist.sort(reverse=True)
    Traceback (most recent call last):
     File "<pyshell#12>", line 1, in <module>
       samplelist.sort(reverse=True)
    NameError: name 'samplelist' is not defined
>>> sample.sort(reverse=True)
>>> print(sample)
   [33, 22, 11]
>>> sample.sort()
>>> print(sample)
    [11, 22, 33]
>>> sample.reverse()
>>> print(sample)
                                            Activate Windows
    [33, 22, 11]
>>>
                                            Go to Settings to activate Windows.
                                                                               Ln: 3
```