1. Consider any list. And perform all methods on it.

```
1 number=[1,2,3,4]
2 number.append(20)
3 print(number)
```

```
[1, 2, 3, 4, 20]
```

```
1 number.insert(0,10)
2 print(number)
```

```
[10, 1, 2, 3, 4, 20]
```

```
1 number.remove(3)
2 print(number)
```

```
[10, 1, 2, 4, 20]
```

```
1 number.clear()
2 print(number)
```

```
[]
```

```
1 number=[1,2,3,4]
2 number.pop()
3 print(number)
```

```
[1, 2, 3]
```

```
1 number.index(3)
```

```
2
```

```
1 67 in number
```

```
False
```

```
1 number=[1,1,2,2,3,3,3,2,3,4,5,2]
2 number.count(3)
```

```
4
```

```
1 number=[3,4,1,2]
2 number.sort()
3 print(number)
```

```
[1, 2, 3, 4]
```

```
1 number=[1,2,3,4]
2 number.reverse()
3 print(number)
```

```
[4, 3, 2, 1]
```

```
1 number=[1,2,3,4]
2 number_new=number.copy()
3 print(number_new)
```

```
[1, 2, 3, 4]
```

2. Consider any tuple. And perform given methods on it.

```
1 number=(1,2,3)
2 print(number)
```

```
(1, 2, 3)
```

```
1 print(number.count(3))
```

```
1
```

```
print(number[0])
```

```
1
```

```
print(number.index(2))
```

```
1
```

```
number=(1,2,3)
print(number.count(5))
```

```
0
```

3. Consider a Set. Print that set, it's length and class type.

```
month={'Jan','Feb','Mar'}
print(month)
```

```
{'Feb', 'Jan', 'Mar'}
```

```
print(len(month))
```

```
3
```

```
print(type(month))
```

```
<class 'set'>
```

4. Consider a dictionary. Print that dictionary and its class type.

```
student={'name':'Rahul','Branch':'CSE','Roll number':'70'}
print(student)
```

```
{'name': 'Rahul', 'Branch': 'CSE', 'Roll number': '70'}
```

```
print(type(student))
```

```
<class 'dict'>
```

5. Print a string using single, double, triple quotes.

```
x='Telecommunication'
print(x)
```

```
Telecommunication
```

```
x="Telecommunication"
print(x)
```

```
Telecommunication
```

```
x='''Electronics and
Telecommunication
Engineering'''
print(x)
```

```
Electronics and
Telecommunication
Engineering
```

6. Consider a string and perform given operations on it.

```
a='Python'
print(len(a))
```

```
6
```

```
print(a.find('P'))
```

```
0
```

```
1 print(a.upper())
```

```
PYTHON
```

```
1 print(a.lower())
```

```
python
```

```
1 print(a.replace('y','i'))
```

```
Pithon
```

```
1 print('P'in a)
```

```
True
```

```
1 print(a[0])
```

```
P
```

```
1 print(a[0:3])
```

```
Pyt
```

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

```
ython
```

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

```
Python
```

```
1 print(a[1:-1])
```

```
ytho
```

7. Write a code to find largest number in list.

```
1 number=[1,3,10,4,6]
2 max=number[0]
3 for i in number:
4   if i > max:
5     max=i;
6 print('Maximum number is',max)
```

```
Maximum number is 10
```