1) values = input("Enter the numbers:")

list = values.split(",")

tuple = tuple(list)

print('List : ',list)

print('Tuple : ',tuple)

2) filename = input("Input the Filename: ")

f_extns = filename.split(".")

print("The extension of thr file is : " + repr(f_extns[-1]))

3) my_list = [3,4,6,7,8]

print("The original list is : " + str(my_list))

res = my_list[::len(my_list)-1]

print("The first and last element of list are : " + str(res))

4) def new_string(str):

    if len(str) >= 2 and str[:2] == "Is":

        return str

    return "Is" + str

print(new_string("Cody"))

print(new_string("IsEmpty"))

5)
```
def is_group_member(group_data, n):
  for value in group_data:
     if n == value:
        return True
  return False
print(is_group_member([1, 5, 8, 3], 3))
print(is_group_member([5, 8, 3], -1))
```

6)
```
color_list_1 = set(["Blue", "Black", "Red"])
color_list_2 = set(["Red", "Green"])
print("Original set elements:")
print(color_list_1)
print(color_list_2)
print("\nDifference of color_list_1 and color_list_2:")
print(color_list_1.difference(color_list_2))
```

7)
```
def remove_nums(int_list):
 position = 3 - 1
 idx = 0
 len_list = (len(int_list))
 while len_list>0:
   idx = (position+idx)%len_list
   print(int_list.pop(idx))
   len_list -= 1
nums = [30,40,34,48,57,63]
remove_nums(nums)
```

8) def count(str):

```
    d = {}
    for n in str:
        keys= d.keys()
        if n in keys:
          d[n] += 1
        else:
         d[n] = 1
    return d
print(count('keerthu.org'))
print()
```

9) def my_data(list1, list2):

```
    result = False
    for x in list1:
        for y in list2:
            if x == y:
                result = True
                return result
print(my_data([2, 4, 6, 8, 9], [5, 6, 7, 8, 9]))
print(my_data([2, 3, 4, 6, 8], [6, 7, 8, 9]))
```

10)

```
s = input("Input a string")
d=l=0
for c in s:
    if c.isdigit():
        d=d+1
    elif c.isalpha():
        l=l+1
    else:
        pass
print("Letters", l)
print("Digits", d)
```