1. Consider a 2D list storing student's name along with their marks. Use list comprehension to create another list comprising names of students with marks greater than 85.

```
def comprehendlist(arr):
  newlist = [x for x in arr if x[1] > "85"]
  print(newlist)

def startingPoint():
  rows = int(input("Enter number of rows: "))
  cols = int(input("Enter number of cols: "))
  arr=[]
  for i in range(cols):
      col = []
      name = input("Enter names : ")
      marks = input("Enter marks : ")
      col.append(name)
      col.append(marks)
      arr.append(col)
  print(arr)
  comprehendlist(arr)

if __name__ == "__main__":
    startingPoint()
```

```
Enter number of rows: 2
Enter number of cols: 2
Enter names : kanishk
Enter marks : 34
Enter names : pooja
Enter marks : 56
[['kanishk', '34'], ['pooja', '56']]
[]
```

2. WAP that takes a list of marks as an input from the user and creates a dictionary storing marks and the corresponding frequency as key-value pairs.

```
def frequency(marksList):
    freq = {}
    for mark in marksList:
        if mark in freq:
            freq[mark] += 1
        else:
            freq[mark] = 1
    return freq


def startingPoint():
    marks = []
    num = int(input("Enter size of list : "))
    for _ in range(0, num):
```

```
        mark = int(input("Enter the marks : "))
        marks.append(mark)
    print(marks)
    print(frequency(marks))


if __name__ == "__main__":
    startingPoint()
```

```
 Enter size of list : 5
 Enter the marks : 34
 Enter the marks : 29
 Enter the marks : 23
 Enter the marks : 36
 Enter the marks : 40
 [34, 29, 23, 36, 40]
 {34: 1, 29: 1, 23: 1, 36: 1, 40: 1}
```

3. WAP that takes a list of names as an input from the user and creates a dictionary storing word-length as key-value pair for each word given in the list.

```
def createDict(lst):
    res_dct = {}
    print(num)
    for i in range(0, num):
        res_dct[lst[i]] = len(lst[i])
    return res_dct

def startingPoint():
  names = []
  num = int(input("Enter total number of names: "))
  for i in range(0, num):
    name = input("Enter the name: ")
    names.append(name)
  print(names)
  print(createDict(names))

if __name__ == "__main__":
    startingPoint()
```

```
 Enter total number of names: 5
 Enter the name: sumit
 Enter the name: somya
 Enter the name: vivek
 Enter the name: kanishk
 Enter the name: sahoo
 ['sumit', 'somya', 'vivek', 'kanishk', 'sahoo']
 4
 {'sumit': 5, 'somya': 5, 'vivek': 5, 'kanishk': 7}
```