

Q1

```
a=[1,2,2,3,3,4,4,4,4,5,5,5,5,5]
```

```
b=[]
```

```
while a:
```

```
    c=a[0]
```

```
    d=0
```

```
    for i in a:
```

```
        if a.count(i) > d:
```

```
            d = a.count(i)
```

```
            c = i
```

```
    for i in range(d):
```

```
        b.append(c)
```

```
        a.remove(c)
```

```
print(b)
```

```
[1]: a=[1,2,2,3,3,4,4,4,4,5,5,5,5,5]
      b=[]
      while a:
          c=a[0]
          d=0
          for i in a:
              if a.count(i) > d:
                  d = a.count(i)
                  c = i
          for i in range(d):
              b.append(c)
              a.remove(c)
      print(b)
```

```
[5, 5, 5, 5, 5, 4, 4, 4, 4, 2, 2, 3, 3, 1]
```

Q2.

```
a=input("Enter a string ")
```

```
b=input("Enter a character")
```

```
ch=lambda x, y:x.startswith(y)
```

```
if ch(a, b):
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

```
[2]: a=input("Enter a string ")
      b=input("Enter a character")
      ch=lambda x, y:x.startswith(y)
      if ch(a, b):
          print("Yes")
      else:
          print("No")
```

```
Enter a string java
```

```
Enter a character v
```

```
No
```

Q3.

```
a = ["python", "java", "ram", "sham", "mouse", "abcdef"]
b = list(filter(lambda x: len(x)==6, a))
print("6 char Values ", b)
```

```
[3]: a = ["python", "java", "ram", "sham", "mouse", "abcdef"]
      b = list(filter(lambda x: len(x)==6, a))
      print("6 char Values ", b)
```

```
6 char Values ['python', 'abcdef']
```

Q4.

```
n = int(input("Enter value "))
fib = lambda n: n if n <= 1 else fib(n-1) + fib(n-2)
print("Fibonacci series")
for i in range(n):
    print(fib(i), end=" ")
```

```
[6]: n = int(input("Enter value "))
      fib = lambda n: n if n <= 1 else fib(n-1) + fib(n-2)
      print("Fibonacci series")
      for i in range(n):
          print(fib(i), end=" ")
```

```
Enter value 10
Fibonacci series
0 1 1 2 3 5 8 13 21 34
```