Q1

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q1.py"
enter list[1,2,3,4,4,3,2,1]
enter commanddesc
[4, 4, 3, 3, 2, 2, 1, 1]
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q1.py"
enter list[1,2,3,4,52,3,4,5,2,3,5,6]
enter commandasc
[1, 2, 2, 3, 3, 3, 4, 4, 5, 5, 6, 52]
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q1.py"
enter list[1,2,3,4,5,12,23,1]
enter commandnone
[1, 2, 3, 4, 5, 12, 23, 1]
(base) iitian@ism:~/Desktop/python que$
```

q2

```
(base) iitian@ism:~/Desktop/python que$  cd "/home/iitian/Desktop/python que" ; /usr/bin/env /bin/python3 /home/iitian/.
vscode/extensions/ms-python.python-2022.6.3/pythonFiles/lib/python/debugpy/launcher 33889 -- "/home/iitian/Desktop/pytho
n que/q2.py"
enter number5435425435425435435435543
```

q3

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q1.py"
enter list[1,2,3,4,4,3,2,1]
enter commanddesc
[4, 4, 3, 3, 2, 2, 1, 1]
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q1.py"
enter list[1,2,3,4,52,3,4,5,2,3,5,6]
enter commandasc
[1, 2, 2, 3, 3, 3, 4, 4, 5, 5, 6, 52]
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q1.py"
enter list[1,2,3,4,5,12,23,1]
enter commandnone
[1, 2, 3, 4, 5, 12, 23, 1]
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q3.py"
enter first parameter12
enter second parameter+
enter third parameter1
13
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q3.py"
enter first parameter13
enter second parameter-
enter third parameter12
1
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q3.py"
enter first parameter45
enter second parameter*
enter third parameter3
135
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q3.py"
enter first parameter50
enter second parameter/
enter third parameter5
10.0
```

Q4

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q4.py"
enter stringABCD
AABBCCDD
```

Q5

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q5.py"
98 has repeated 4 times
37 has repeated 3 times
32 has repeated 3 times
10 has repeated 3 times
20 has repeated 3 times
67 has repeated 4 times
60 has repeated 4 times
85 has repeated 4 times
66 has repeated 3 times
75 has repeated 4 times
69 has repeated 3 times
42 has repeated 3 times
34 has repeated 3 times
1 has repeated 4 times
17 has repeated 3 times
11 has repeated 3 times
3 has repeated 3 times
35 has repeated 3 times
51 has repeated 3 times
5 has repeated 3 times
49 has repeated 5 times
57 has repeated 3 times
76 has repeated 4 times
62 has repeated 3 times
54 has repeated 3 times
95 has repeated 3 times
25 has repeated 3 times
```

Q6

```
/bin/python3 "/home/iitian/Desktop/python que/q6.py"
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q6.py"
enter lower limit12
enter upper limit57
13 is a prime number
17 is a prime number
19 is a prime number
23 is a prime number
29 is a prime number
31 is a prime number
37 is a prime number
41 is a prime number
43 is a prime number
47 is a prime number
53 is a prime number
```

Q7

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q7.py"
enter array[1,1,1,1,1,2,2,2,3,4,5,5,2,2,1,1,23423,234,234,2323,432,23,234]
highest frequency= 1
```

q8

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q8.py"
enter stringiwygiywgsfi2i43i234234ib2jh3v
32
```

q9

```
32
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q9.py"
enter stringksdbfkbweiufbcskjbxvkwi
bbbbcdeffiijkkkkssuvwwx(base) iitian@ism:~/Desktop/python que$
```

q10

```
(base) iitian@ism:~/Desktop/python que$ /bi
n/python3 "/home/iitian/Desktop/python que/
q10.py"
enter number x10
enter number y20
Value of x: 20
Value of y: 10
```

q11

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q11.py"
enter:asddsa
it is a palindrome
```

q15

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q15.py"
enter string:123123asdbjsjkdfb123
number of int = 9
number of alfabet = 11
number of special char = 0
```

a

q16

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q16.py"
enter number of test cases2
enter n5
2 is a prime
3 is a prime
5 is a prime
7 is a prime
11 is a prime
enter n4
2 is a prime
3 is a prime
5 is a prime
7 is a prime
```

q17

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q17.py"
enter number45678987654321
it is step number
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q17.py"
enter number1345642
it is not step number
```

q18

```
(base) iitian@ism:~/Desktop/python que$ /bin/python3 "/home/iitian/Desktop/python que/q18.py"
enter number of elements:7
enter element:west
enter element:east
enter element:east
enter element:east
enter element:north
enter element:north
enter element:south
initial array: ['west', 'east', 'east', 'east', 'north', 'north', 'south']
final array: ['north', 'east', 'east']
```