

PYTHON LOGIC TEST – 23/01/26

Question1)

```
mylist = [1,2,2,3,3,4,4,4,4,5,5,5,5]
freq = {}
for item in mylist:
    freq[item] = freq.get(item, 0) + 1
result = []
for key, count in sorted(freq.items(), key=lambda x: x[1], reverse=True):
    result.extend([key] * count)
print(result)
```

```
C:\Users\NIDHI\AppData\Local\Programs\Python\Python310\python.exe "D:\PYTHON FILES\practice1.py"
[5, 5, 5, 5, 5, 4, 4, 4, 2, 2, 3, 3, 1]
```

```
Process finished with exit code 0
```

Question 2)

```
starts = lambda s, ch: s.startswith(ch)
string = input("Enter a string: ")
character = input("Enter a character: ")
print(starts(string, character))
```

```
C:\Users\NIDHI\AppData\Local\Programs\Python\Python310\python.exe "D:\PYTHON FILES\practice2.py"
```

```
Enter a string: nidhi
```

```
Enter a character: n
```

```
True
```

```
Process finished with exit code 0
```

Question3)

```
words = ['python', 'lambda', 'java', 'sql', 'database', 'nidhi']
result = list(filter(lambda x: len(x) == 6, words))
print(result)
```

```
...:
```

```
C:\Users\NIDHI\AppData\Local\Programs\Python\Python310\python.exe "D:\PYTHON FILES\practice3.py"
['python', 'lambda']
```

```
Process finished with exit code 0
```