

## Day 4 python

#Answer 1

```
from collections import Counter
arr = [1,2,2,3,3,4,4,4,5,5,5,5]
freq = Counter(arr)
sort = sorted(arr, key=lambda x: (-freq[x], x))
print(sort)
```

```
C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\python.exe C
[5, 5, 5, 5, 5, 4, 4, 4, 4, 2, 2, 3, 3, 1]
```

# #Answer 2

```
x = lambda s, ch: s.startswith(ch)
print(x("hello", "h"))
print(x("world", "h"))
```

```
C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Aakrosh
True
False
```

# #Answer 3

```
lst = ["python", "lambda", "coding", "filter", "length", "sixsix", "short"]
res = list(filter(lambda w: len(w) == 6, lst))
print(res)
```

```
C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python3
['python', 'lambda', 'coding', 'filter', 'length', 'sixsix']
```

# #Answer 4

```
from functools import reduce
fib = lambda n: reduce(lambda x, _: x+[x[-1]+x[-2]], range(n-2), [0,1])
print(fib(10))
```

```
C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\py
[0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
```