Q1.

```
import numpy as np

arr = np.array([1, 2, 2, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5])
print(arr)
print(type(arr))
print(arr[::-1])
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
[5 5 5 5 5 4 4 4 4 3 3 2 2 1]

Process finished with exit code 0
```

Q2.

```
mylambda = lambda s, ch: s.startswith(ch)

s = "Mumbai"
c = 'M'

if mylambda(s, c):
    print("The string starts with the given character.")
else:
    print("The string does not start with the given character.")
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
The string starts with the given character.

Process finished with exit code 0
```

Q3.

```
words = ["python", "coding", "data", "lambda", "filter", "course", "AI"]

mylambda = list(filter(lambda x: len(x) == 6, words))

print("Original list:", words)
print("Values with length 6:", mylambda)
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
['Mumbai', 'Madhumita', 'SMVITA', 'Juhu', 'Result', 'DBDA', 'SQL']
Values with length 6: ['Mumbai', 'SMVITA', 'Result']

Process finished with exit code 0
```

Q4.