

Q1.

```
import numpy as np
```

```
arr = np.array([1,2,3,4,5,6])
```

```
print(arr)
```

```
print(type(arr))
```

```
even_count = 0
```

```
odd_count = 0
```

```
even_list = []
```

```
even = lambda arr: [i for i in arr if i % 2 == 0]
```

```
even_list.append(even)
```

```
for j in range(len(even_list)):
```

```
    print(even_list[j])
```

```
print(even_count)
```

```
odd = lambda arr: [i for i in arr if i % 2 != 0]
```

```
print(odd(arr))
```

Q2.

```
s = "madam"
```

```
palindrome = [lambda x: print("Is a palindrome") if x == x[::-1] else print("Is not palindrome")]
```

```
print(palindrome(s))
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
Is a palindrome

Process finished with exit code 0
```

Q4.

```
s = "hello"
```

```
str = [ch for ch in s if s.isalnum()]
```

```
mylist = []
```

```
for i in range(len(str)):
```

```
    mylist.append(ord(str[i]))
```

```
print(mylist)
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"  
[104, 101, 108, 108, 111]
```

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