# Assignment questions Mastering java 8

**Question 1:**

Filter and Count Given a list of integers: List numbers = Arrays.asList(1, 2, 3, 4, 5, 6, 7, 8, 9, 10); Use the Stream API with lambda expressions to filter out the even numbers and count them. What is the expected output?

```java
public class Question1 {

    public static void main(String[] args) {
        List<Integer> numbers = Arrays.asList(1, 2, 3, 4, 5, 6, 7, 8, 9, 10);
        int sum =    numbers
                                    .stream()
                                    .filter((num)-> num%2==0)
                                    .reduce(0, (a,b)->a+b);

        System.out.println("sum of enen numbers in "+numbers+"-> "+sum);
    }

}
```