

Week 1:

Q.1) Write a method to reverse the characters from a string.

Ans> The pseudocode for reversing a word is written below:

- 1) Begin
- 2) Display "Enter characters"
- 3) Declare reverse
- 4) reverse=""
- 5) Declare str
- 6) str=input a string
- 7) for (i=lengthOf(str)-1 to i>=0)
- 8) reverse=reverse+str.charAt(i)
- 9) Display "The reverse is: "+ reverse

The code is written below.

```
1 package finalAssignment;
2 import java.util.Scanner;;
3 public class charReverse {
4     private void reverse(String str){
5         String reverse=""; //variable to store reverse word
6         for (int i = str.length() - 1 ; i >= 0 ; i--)
7             reverse = reverse + str.charAt(i);
8         System.out.print("The reverse of " + str + " is: " + reverse);
9     }
10    public static void main(String[] args) {
11        Scanner s = new Scanner(System.in);
12        System.out.println("Enter a word or a sentence");
13        String str = s.nextLine(); //variable to store user input
14        charReverse cR=new charReverse();
15        cR.reverse(str);
16
17
18    }
19
20 }
21
```

Figure 1: Code implementation

Q.2 Write the pseudocode for finding duplicate values in an array.

Ans> The pseudocode for finding duplicate values in an array is:

1. Begin
2. Declare array as my_array
3. for i=0 to lengthOfmy_array-1
4. for j=i+1 to lengthOfmy_array-1
5. if my_array[i] == my_array[j]
6. Display my_array[j]