Assignment 4
OOPs

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CCE - 3rd - A

1.

```
import java.util.Scanner;
class Assignment-4-1 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter String : ");
        String line = scanner.nextLine();
        System.out.println(
                "Enter sequence to check : ");
        String seq = scanner.nextLine();
        System.out.println(line.contains(seq));
        scanner.close();
    }
}
```

2.

```
import java.util.Scanner;

public class Assignment_4_2 {
 public static void main(String[] args) {
    Scanner scanner = new Scanner
                      (System.in);
    String line = scanner.nextLine();
    String rev = "";
    for( int i = 0; i < line.length() - 1; i >= -1; i--){
      rev = rev + line.charAt(i);
    }
    if ( rev.equalsIgnoreCase ( line)) {
      System.out.println("Palindrome");
    }
    else {
      System.out.println("Not Palindrome");
    }
    scanner.close();
  }
}
```

3.
```
import java.util.Scanner;
class Assignment_4_3 {
public static void main(String[] args){
  Scanner scanner = new Scanner(System.in);
  String line = scanner.nextLine();
  String rev = "";
  for(int i = line.length()-1 ; i >-1 ;i --){
     rev = rev + line.charAt(i);
  }
  System.out.println("Reverse: "+ rev);
  scanner.close();
}
```

4.
```
import java.util.Scanner;
class Assignment-4-4 {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("Enter string:");
String line = scanner.nextLine();
// 1 extra to prevent out of bounds error
String[] arr = new String[countSemicolon(line)+1];
for(int i=0;i<arr.length;i++){
    arr[i]="";
}
int index=0;
for(int i=0; i<line.length();i++){
  char c = line.charAt(i);
  if(c==';'){
      index++;
  }
  else{
     arr[index]= arr[index]+c;

}}
}
  for(String s : arr){
     if(s.length()==0)
        continue;
     System.out.println(s);
  }
  Scanner.close();
}
```

```
private static int countSemicolon(String s){
    int c = 0;
    for(int i = 0; i < s.length(); i++){
        if(s.charAt(i) == ';'){
            c++;
        }
    }
    return c;
}
}
```