Assignment No. 04

Given: 10101111100010101000000101

Q1) Count how many times the number of 1 and number of 0 will come.

```
import java.util.Scanner;
public class Q1{

	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		String  b = sc.next();
		int x = 0;
		int y = 0;

		for(int i=0; i < b.length(); i++){
		  char s = b.charAt(i);
		  if(s=='1')
		  {
			x=x+1;
		  }
		  if(s=='0')
		  {
			y=y+1;
		  }

		 }
	System.out.println("Count of 1 in input: " +x);
	System.out.println("Count of 0 in input: " +y);
	}
}
```

Q2) How many times 0 will come after 1.

```
import java.util.Scanner;
public class Q2{
	public static void main(String[] args) {
		Scanner sc = new Scanner(System.in);
		String b = sc.next();
		int count = 0;
		char m = '1';
		int n = '0';
		 for(int  i= 0; i < b.length(); i++){
			char s = b.charAt(i);
			if(i < b.length()-1){
				if(s == m){
				char k = b.charAt(i + 1);
					if(k == n){
						count = count + 1;
				}
			   }
			}
		}
		System.out.println("0 comes " +count+ " times after 1");
	}
}
```

Q3) WAP to find out whether the string is palindrome or not.

```
import java.util.Scanner;
public class Q3{

	public static void main(String[] args){
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the string: ");
		String  b = sc.next();
		String s = "";

		for(int i = b.length()-1; i >= 0; i--){
			s = s + b.charAt(i);
		}
		if(s.equalsIgnoreCase(b)){
			System.out.println("Input string is palindrome");
		}
		else
			System.out.println("Input string is not palindrome");
	}
}
```

Q4) WAP to reverse the string.

```
import java.util.Scanner;
public class Q4 {
	public static void main(String[] args){
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter the string: ");
		String b = sc.next();
		String s = "";

		for(int i = b.length()-1; i >= 0; i--){
			s = s + b.charAt(i);
		}
		System.out.println(s);
	}
}
```

Q5) WAP to print words in reverse.

i/p: ab cd ef gh ij kl

```
import java.util.Scanner;


public class Q5 {
public static void main(String[] args){
	Scanner sc = new Scanner(System.in);
	String  b = sc.nextLine();
	String s[] = b.split(" ");


		for(int i = s.length-1; i>=0; i--){
			System.out.print(s[i]+" ");
		}
	}


}
```