```java
public class Assignment1 {
   public static void main(String[] args) {
       // 1. WAP in Java to print the reverse of a number using while and for
loop.
       System.out.println("1.");
       int num = 1234;
       int reversed = 0;
       System.out.println("Enter the number :" + num);

       while (num != 0) {
           int digit = num % 10;
           reversed = reversed * 10 + digit;
           num = num / 10;

       }

       System.out.println("The reverse of the given number is : " +
reversed);// using for loop
       for (; num != 0; num /= 10) {
           int digit = num % 10;
           reversed = reversed * 10 + digit;
       }

       System.out.println("Reversed Number: " + reversed);


System.out.println("\n-----------------------------------------------------------
-------");

       // 2. WAP in Java to check a number is positive or negative using
if-else and switch statement.
       System.out.println("2.");
       int num2 = 7;
       if (num2 > 0) {
           System.out.println("The entered number \t " + num2 + "\t is
positive.");
       } else if (num2 < 0) {
           System.out.println("The entered number \t " + num2 + "\t  is
negative.");

       } else {
           System.out.println("The entered number \t " + num2 + "\t  is
zero.");
       }
       System.out.println("Using switch statement");
       switch (Integer.compare(num2, 0)) {
           case -1:
               System.out.println("The " + num2 + " is negative number");
               break;
```

```
            case 1:
                System.out.println("The " + num2 + " is positive number");
                break;
            default:
                System.out.println("The " + num2 + " is Zero");
        }


System.out.println("\n-------------------------------------------------------------
-------");

                // 3. WAP in Java to count the total number of characters in a
string.
                System.out.println("3.");
                String word = "HEHE HUHU";
                int count = 0;
                System.out.println("The entered string is : " + word);

                for (int i = 0; i < word.length(); i++) {
                    if (word.charAt(i) != ' ')
                        count++;
                }
                System.out.println("The total number of character in the above
string is : " + count);


System.out.println("\n-------------------------------------------------------------
-------");

                // 4. Write a program to convert int to string and vice versa.
                System.out.println("4.");
                String str1 = "5";
                int result = Integer.parseInt(str1);
                System.out.println("integer:" + result);

                int x = 5;

                String str = Integer.toString(x);
                System.out.println("String :" + str);

System.out.println("\n-------------------------------------------------------------
-------");
```

```java
        // 5.  WAP in Java to copy all the elements from one array to
another array and print the new array
        System.out.println("5.");

        String[] arry1 = {
                "Ram",
                "Shyam",
                "Hari",
        };
        System.out.println("Before copying");
        for (int i = 0; i < arry1.length; i++) {
            System.out.println("arry1: " + arry1[i]);
        }
        System.out.println("After copying");
        String[] arry2 = new String[arry1.length];
        System.arraycopy(arry1, 0, arry2, 0, arry1.length);
        for (int i = 0; i < arry2.length; i++) {
            System.out.println("arry2: " + arry2[i]);
        }


    }


}
```

Output :

```
C:\Users\sharm\Downloads\jdk-21_windows-x64_bin\jdk-21.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\Int
1.
Enter the number :1234
The reverse of the given number is : 4321
Reversed Number: 4321

------------------------------------------------------------
2.
The entered number   7   is positive.
Using switch statement
The 7 is positive number

------------------------------------------------------------
3.
The entered string is : HEHE HUHU
The total number of character in the above string is : 8

------------------------------------------------------------
4.
integer:5
String :5

------------------------------------------------------------
5.
Before copying
arry1: Ram
arry1: Shyam
arry1: Hari
After copying
arry2: Ram
arry2: Shyam
arry2: Hari

Process finished with exit code 0
```