

ReverseWebService.java

```
package Reverse.org.me;
```

```
import javax.jws.WebService;
```

```
import javax.jws.WebMethod;
```

```
import javax.jws.WebParam;
```

```
/**
```

```
 *
```

```
 * @author Vaishnavi
```

```
 */
```

```
@WebService(serviceName = "ReverseWebService")
```

```
public class ReverseWebService {
```

```
    /**
```

```
     * This is a sample web service operation
```

```
    */
```

```
@WebMethod(operationName = "hello")
```

```
public String hello(@WebParam(name = "name") String txt) {
```

```
    return "Hello " + txt + " !";
```

```
}
```

```
    /**
```

```
     * This web service operation reverses a number
```

```
    */
```

```
@WebMethod(operationName = "reverseNumber")
```

```
public int reverseNumber(@WebParam(name = "number") int number) {
```

```
    int reversed = 0;
```

```
    while (number != 0) {
```

```
        int digit = number % 10;
```

```
        reversed = reversed * 10 + digit;
```

```
        number /= 10;
    }
    return reversed;
}
}
```

JavaApplication

```
package javaapplication7;
```

```
import java.util.Scanner;
```

```
/**
```

```
*
```

```
* author: Vaishnavi
```

```
*/
```

```
public class JavaApplication7 {
```

```
    public static void main(String[] args) {
```

```
        Scanner scanner = new Scanner(System.in); // Create Scanner object
```

```
        System.out.print("Enter a number to reverse: ");
```

```
        int number = scanner.nextInt(); // Read input from user
```

```
        int reversed = reverseNumber(number);
```

```
        System.out.println("Original number: " + number);
```

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

```
    }
```

```
// Method to reverse a number
```

```
public static int reverseNumber(int number) {
```

```
    int reversed = 0;
```

```
    while (number != 0) {
```

```

int digit = number % 10;

reversed = reversed * 10 + digit;

number /= 10;
}

return reversed;
}
}

```

