MAHARISHI DAYANAND UNIVERSITY

Delhi Global Institute of Technology

Advanced Java Lab

Submitted By: Bazgha Razi

Subject Code : LC-CSE-328G

Subject Name : Advanced Java Lab

Registration Number : 191380214

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Registration Number: 191380214

Program 1: Print "Hello" message using java.

Code:

```java
class Class {

    public static void main(String[] args) {

        System.out.println("Hello");

    }

}
```

Output:

```
Output

java -cp /tmp/D14innS7Rh Class
Hello
```

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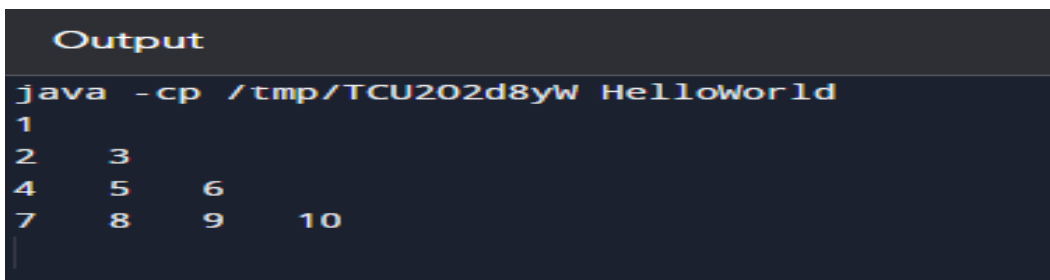
Program 2: Print Series

1

2 3

4 5 6

7 8 9 10

Code:

```java
class HelloWorld {
    public static void main(String[] args) {
        int rows = 4;
        int count =1;
        for (int i = 1; i <= rows; i++) {
            for (int j = 1; j <= i; j++) {
                System.out.print(count+"\t");
                count++; }
            System.out.println(); }
    }
}
```

Output:

```
 Output
java -cp /tmp/TCU202d8yW HelloWorld
1
2    3
4    5    6
7    8    9    10
```

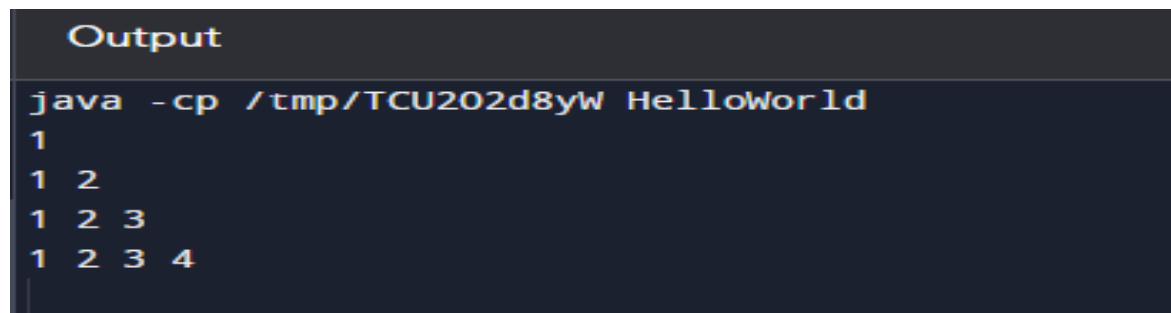**Name:** Bazgha Razi

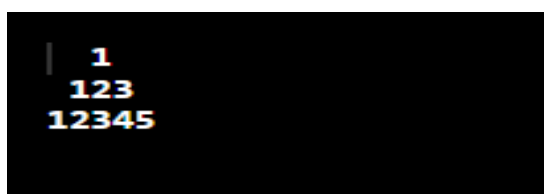**Registration Number:** 191380214

Program 3: Print Series

1

1 2

1 2 3

1 2 3 4

Code:

```java
class HelloWorld {
    public static void main(String[] args) {
        int rows = 4;
        for (int i = 1; i <= rows; i++) {
            for (int j = 1; j <= i; j++){
                System.out.print(j+" ");
            }
            System.out.println();
        }
    }
}
```

Output:

```
 Output
java -cp /tmp/TCU2O2d8yW HelloWorld
1
1 2
1 2 3
1 2 3 4
```

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Program 4: Print Series

```
    1
  1 2 3
1 2 3 4 5
```

Code:

```java
public class HelloWorld {

    public static void main(String[] args) {

        for (int i=1; i<=3; i++){

            for (int k=1;k<=2-i+1;k++){

                System.out.print(" ");

            }

            int num = 1;

            for (int j=1; j<=2*i-1; j++){

                System.out.print(num);

                num++;

            }

            System.out.println(); } }

}
```

Output:

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Program 5: Make a calculator for addition, subtraction, multiplication, division and modular operator in JSP.

Code:

```
<html>

<body>

<script>

const operator = prompt('Enter operator to perform the calculation ( either +,-, * ,% or / ): ');

const number1 = parseFloat(prompt ('Enter the first number: '));

const number2 = parseFloat(prompt ('Enter the second number: '));

let result;

if (operator == '+') {

    result = number1 + number2;

}

else if (operator == '-') {

    result = number1 - number2;

}

else if (operator == '*') {

    result = number1 * number2;

}

else if (operator == '%'){

    result = number1%number2;
```

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```
}
else {
   result = number1 / number2;
}
document.write(" Result is " + result);
</script>
 <body>
 </html>
```

Output:

Enter operator to perform the calculation (either +, -, * ,% or /):
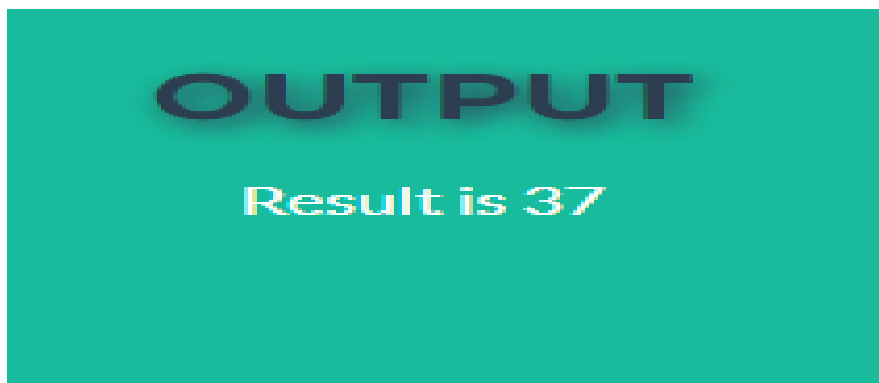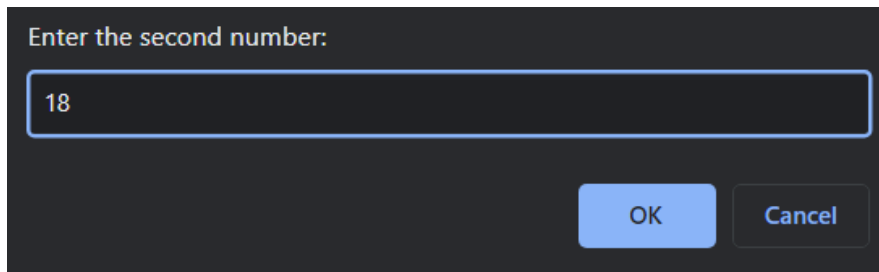
+

OK   Cancel

Enter the first number:

19

OK   Cancel

Enter the second number:

18

OK   Cancel

OUTPUT

Result is 37

Program 6: In JSP take input from user and find out whether it is odd or even.

Code:

```
<html>

<body>

<script>

function oddEven(number){

if(number%2==0){

return("The number is Even");

}

else{
```

```
return("The number is Odd");

}

}
</script>

<script>

var n = parseInt(prompt("Enter the number"));

var ans = oddEven(n);

document.write(ans);

</script>

</body>

</html>
```

Output:

Program 7: Calculate electricity bill when number of unitsconsumed is given.

Code:

```html
<html>

<body>

<script>

function calculateBill(units)

{

    if (units <= 100)

    {

        return units * 10;

    }

    else if (units <= 200)

    {

        return (100 * 10)+ (units - 100)* 15;

    }

    else if (units <= 300)

    {

        return (100 * 10)+ (100 * 15)+ (units - 200)* 20;

    }

    else if (units > 300)
```
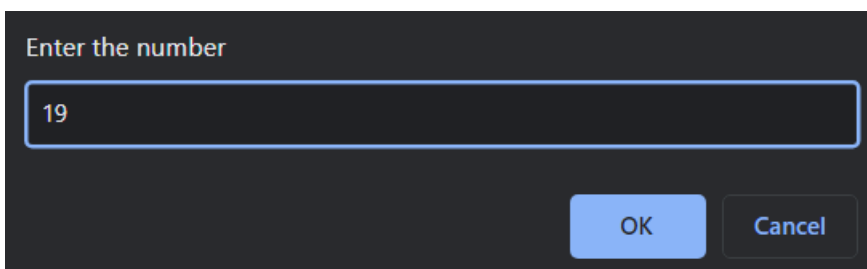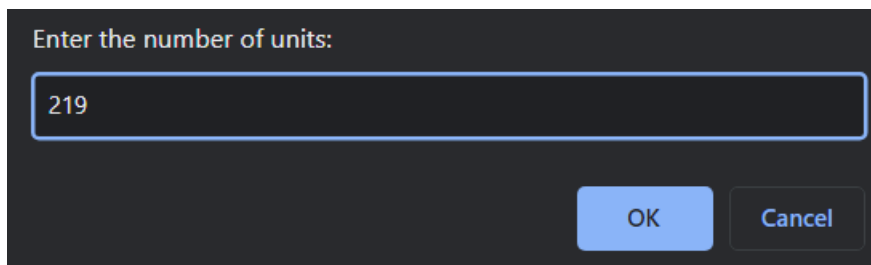
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```
{
        return (100 * 10)+ (100 * 15)+ (100 * 20)+ (units - 300)* 25;
    }
    return 0;
}
</script>
<script>
var units = parseInt(prompt("Enter the number of units: "));
document.write("Total Electricity Bill: ");
document.write(calculateBill(units));
</script>
<body>
</html>
```
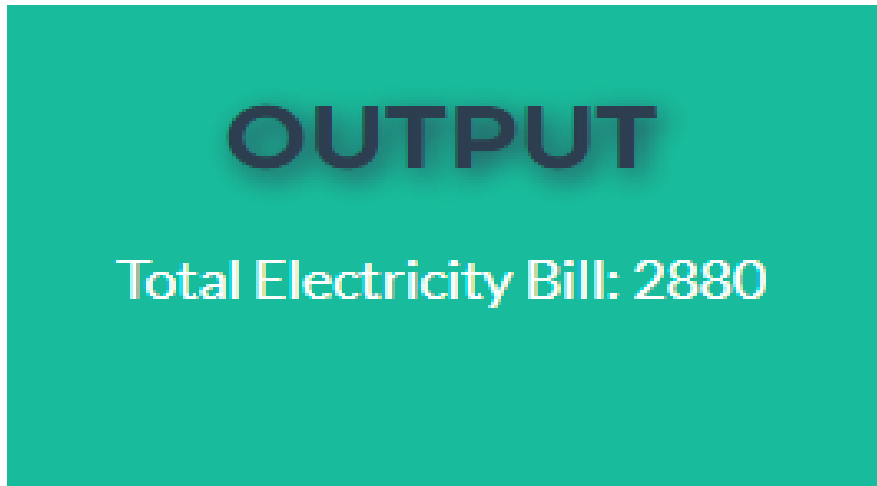
Output:

Enter the number of units:

219

OK   Cancel

OUTPUT

Total Electricity Bill: 2880

Program 8: Take a number from user, find out whether it is Armstrong number or not.

Code:

```html
<html>
<body>
<script>
    function Armstrong(number)
    {
        var original,remainder,res = 0;
        original = number;
        while(number > 0)
        {
            remainder = number%10;
```

```
                    res = res + remainder*remainder*remainder;

                    number = parseInt(number/10);

            }

            if(res == original)

            {

                    return("The number is Armstrong");

            }

            else

            {

                    return("The number is not Armstrong");

            }

      }
</script>
<script>

var n = parseInt(prompt("Enter the number"));

var ans = Armstrong(n);

document.write(ans);

</script>

</body>

</html>
```
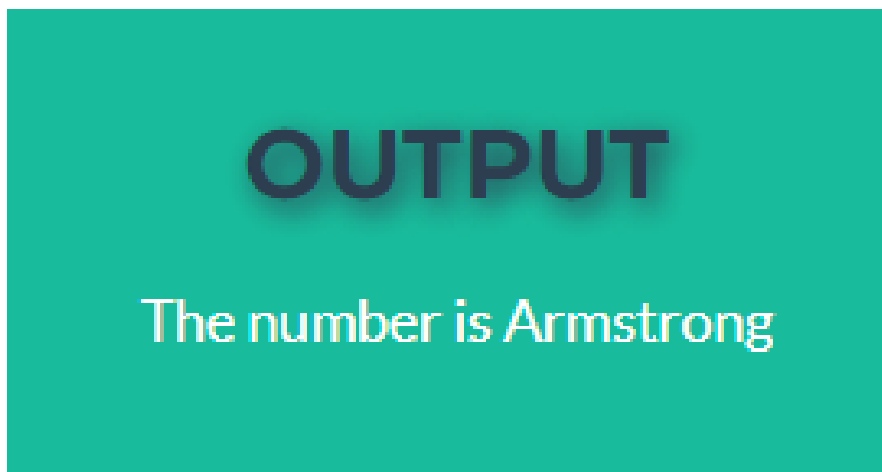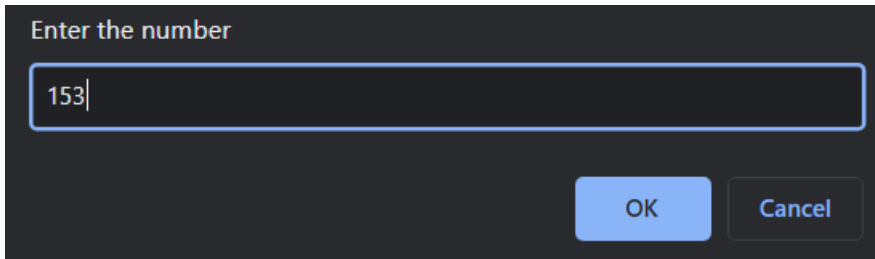
Name: Bazgha Razi

Registration Number: 191380214

Output:

Program 9: Take a number from user and find out whether it is palindrome or not.

Code:

```
<html>

<body>

<script>

function validatePalin(str) {

    const len = string.length;
```
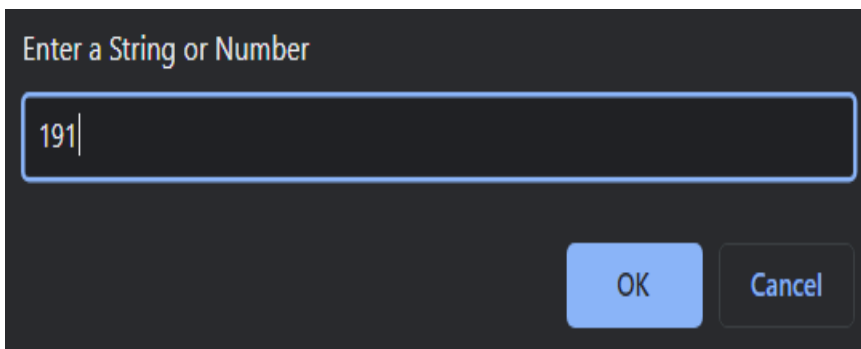
Name: Bazgha Razi

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```
for (let i = 0; i < len / 2; i++) {

    if (string[i] !== string[len - 1 - i]) {

        return( str+' is not a palindrome');

    }

  }

  return( str+' is a palindrome');

}
</script>
<script>
const string = prompt('Enter a String or Number ');

const ans = validatePalin(string);

document.write(ans);
</script>
</body>
</html>
```

Output:
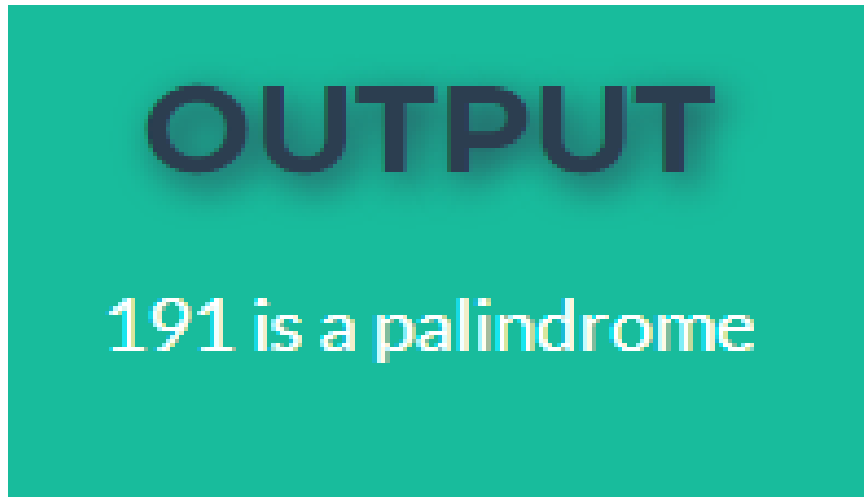

Enter a String or Number

191

OK   Cancel

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Program 10: In JSP, make your resume including html tags also.

Code:

```
<html>

<head><title>My CV </title></head>

<body>

<h1><b> Bazgha Razi </b></h1>

<address style="color:black;">bs0019@gmail.com</address>

<h2 style="color:blue;">PROFILe</h2>

I am currently pursuing B Tech 3rd year in computer science and engineering.

<br> I am currently looking for an  internship opportunity that allows me to grow my skills alongside.<br>

<hr>

<h2 style="color:blue;">EDUCATION AND QUALIIFICATIONS</h2>
```

Name: Bazgha Razi

Registration Number: 191380214

<table border="2" cellspacing="5" cellpadding="5" >

<tr>

  <th>Qualification</th>

  <th>Obtained Marks/GPA</th>

  <th>College/School Name</th>

  <th>Bord/University</th>

</tr

<tr>

  <td>10th</td>

  <td>9.2</td>

  <td>Kendriya Vidyalaya</td>

  <td>CBSE</td>

</tr>

<tr>

  <td>12th</td>

  <td>64%</td>

  <td>Kendriya Vidyalaya</td>

  <td>CBSE </td>

</tr>

<tr>

<td>B.Tech(CSE) in progress</td>

<td>8.53</td>

<td>Delhi Global Institute of Technology</td>

<td>MDU</td>

</tr>

</table>

<hr>

<h2 style="color:blue;">TECHNICAL EXPERIENCE:</h2>

Languages: Python, Java, HTML,CSS, JavaScript

Frameworks/ Libraries: Flask, Bootstrap, jQuery

Databases/ Tools: SQL, MongoDB, Git & Github, Command Line

<hr>

<h2 style="color:blue;">PROJECTS</h2>

<strong style = "color:black;"> Flopan: An extension used for research purpose. It uses picture in picture concept.

<strong style= "color:black;">Dhirati Education's App: An E-Learning app using Flutter and Dart.

<strong style= "color:black;">Password Checker: It basically helps you to check that how many times your password was hacked before, so that you can change your password according to the information.

<strong style = "color:black">Secrets: It's a website similar to whisper app. In this, I have learned authentication.

<hr>

<h2 style="color:blue;">INTERNSHIP</h2>

1.App Developer at Dhirati Education.

2.Social Media Marketing intern at Fantastiqo.

<hr>

<h2 style="color:blue;">COMMUNITY</h2>

Microsoft Student Ambassador

</body>

</html>

Name: Bazgha Razi

Registration Number: 191380214

Output: