**SRI RAMACHANDRA**
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai
**SRI RAMACHANDRA ENGINEERING AND TECHNOLOGY**

# CSE 280 ADVANCE JAVA

## STUDENT WORK BOOK

| | | |
|---|---|---|
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| **Year** | : | II |
| **Quarter** | : | Q6 |
| **Department** | : | B.Tech CSE (AI &ML) |
| **Faculty Name** | : | Prof. Ashok Kumar |
| **Academic Year** | : | 2020-2021 |

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**Question 1:**

Get a number from user and print whether the number is even or odd.

**Program:**

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="evenodd.jsp" method="POST">
        <input type="text" placeholder="Enter here" name="num"/>
        <br>
        <button type="submit">Check</button>
    </form>
</body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <%@ include file="evenodd.html"%>
    <%
        out.println("<br>");
        int num = Integer.parseInt(request.getParameter("num"));
        if(num%2==0){
            out.println("<br>"+num+" is an even number");
        }
        else{
```

```
            out.println("<br>"+num+" is an odd number");
        }
    %>
</body>
</html>
```

**Output:**

```
23
Check
```

23 is an odd number

## Question: 2

Get a number 'a' from user and print the sum of all numbers from 1 to 'a'.

**Program:**

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="sum.jsp" method="POST">
        <input type="text" placeholder="Enter here" name="a"/>
        <br>
        <button type="submit">Calculate</button>
    </form>
</body>
```

```
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <%@ include file="sum.html"%>
    <%
        out.println("<br>");
        int a = Integer.parseInt(request.getParameter("a"));
        int sum = 0;
        for(int i=0;i<=a;i++){
            sum+=i;
        }
        out.println("<br>"+"The sum till "+a+" is "+sum);
    %>
</body>
</html>
```

**Output:**

34

Calculate

The sum till 34 is 595

**Question: 3**

Get a string from the user and display the count of vowels present in it.

**Program:**

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="vowelcount.jsp" method="POST">
        <input type="text" name="str" placeholder="Enter your string" />
        <br>
        <button type="submit">Check for vowels</button>
    </form>
</body>
</html>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <%@ include file="vowelcount.html"%>
    <%
        out.println("<br>");
        String str = request.getParameter("str").toLowerCase();
        int l = str.length();
        int count =0;
        for(int i=0;i<l;i++){
            char x = str.charAt(i);
                if(x == 'a' || x == 'e' || x == 'i' || x == 'o' || x == 'u'){
                    count ++;
                    continue;
```

```
                }

        }
        out.println("<br>"+"The number of vowels is "+count);
    %>
</body>
</html>
```

**Output:**

```
hello
Check for vowels
```

The number of vowels is 2

**Question: 4**

Get a number from user and print the first 10 multiples of it.

**Program:**

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="tenmultiples.jsp" method="POST">
        <input type="text" placeholder="Enter here" name="num"/>
```

```
        <br>
        <button type="submit">Display</button>
    </form>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <%@ include file="tenmultiples.html"%>
    <%
        out.println("<br>");
        int num = Integer.parseInt(request.getParameter("num"));
        out.println("You entered: "+num);
        out.println("<br>");
        out.println("The first 10 multiples are:");
        for(int i=1;i<=10;i++){
            out.println("<p>"+num*i+"</p>");
        }
    %>
</body>
</html>
```

**Output:**

10

Display

You entered: 10
The first 10 multiples are:

10

20

30

40

50

60

70

80

90

100

**Question: 5**

Write a jsp code to find whether a year is a leap year or not.

**Program:**

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
```

```
<body>
    <form action="leapyear.jsp" method="POST">
        <input type="text" placeholder="Enter the year" name="year"/>
        <br>
        <button type="submit">Check</button>
    </form>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <%@ include file="leapyear.html"%>
    <%
        out.println("<br>");
        int year = Integer.parseInt(request.getParameter("year"));
        if(year%4==0){
            out.println("<br>"+year+" is a leap year");
        }
        else{
            out.println("<br>"+year+" is not a leap year");
        }
    %>
</body>
</html>
```

**Output:**

2020

Check

2020 is a leap year