

Web Programming

Mid-I Assignment:

1) Write program to find the factorial value of any number entered by the using Java Script.

Ans:

```
<html>
<head>
<title> factorial </title>
</head>
<body>
<script>
function show() {
var i, no, fact=1;
no= number (document. getElement by("num").
value);
for (i=1; i<no; i++) {
fact*=fact*i;
}
document. get {element By ("ans") .value = fact;
</script>
Enter number: <input id='num'. placeholder='numb'
type = 'number'> <button onclick='show()'>
factorial </button> <br> <label id='ans'>0
</label> </body> </html>
```

2) In a company an employee is paid as under. If his basic salary is less than Rs. 1600 then HRA = 10% of basic salary & DA = 90% of salary. If his salary is either equal to or above Rs. 1500, then HRA = Rs. 500 & DA = 98% of basic salary. If basic salary is input, write the program to find this gross salary using JavaScript. Event handler

```
<html>
<head>
<title> Gross salary </title>
</head>
<body> <script>
function show() {
    var no, ans;
    no = Number(document.getElementById('salary').value);
    if (no < 1500) {
        ans = no + (10/100)*no + (90/100)*no;
    }
    else {
        ans = no + 500 + (98/100)*no;
    }
    document.getElementById('ans').value = ans;
}
</script>
Enter salary: <input id = 'salary'>
<button onclick = 'show()'> Gross salary </button>
</body>
</html>
```


Output:

Enter Salary 1203

Given salary 203 & 316

3) Write a program to take a character (c) as input & check whether this given character is a vowel or a consonant using java.

Ans: class section {

```
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        Character c = sc.next();
```

```
        if (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U') {
```

```
            System.out.println("vowel");
```

```
        }
```

```
    else {
```

```
        System.out.println("consonant");
```

```
    }
```

```
}
```

```
}
```

Output: 'z' Consonant

'A' vowel

'I' vowel

④ Describe in detail multithreading concept illustrate with the java code.

Ans: Multithreading in java allows concurrent execution of two or more parts of a program for maximum utilization of CPU. Each part of such program is called a thread. So, threads are light weight processes within a process.

```
class MultithreadingDemo extends threads {  
    public void main () {  
        try {  
            System.out.println("Thread" +  
                Thread.currentThread().getId() + " is running");  
        } catch (Exception e) {  
            System.out.println("Exception is caught");  
        }  
    }  
}  
  
public class Multithread {  
    public static void main (String[] args) {  
        int n=4; for (int i=0; i<n; i++) {  
            MultithreadingDemo Object = new MultithreadingDemo();  
            Object.start();  
        }  
    }  
}
```


Output:

Thread 4 is turning

Thread 5 " "

Thread 6 " "

" 7 " "

⑤ Connect to the database using any of the JDBC drivers. Insert & display 2 records with bus ticket reservation on information.

Ans: import java script.sql.*;

Public Class Solution {

Public static void main (String[] args) {

connection con = null;

statement st = null;

try {

Class.forName("com.mysql.jdbc.Driver");

con = DriverManager.getConnection("jdbc:mysql://localhost/bus", "root", "root");

System.out.println("Connection Established");

st = con.createStatement();

st.executeUpdate("Insert into booking values (131, 'hyderabad', 'chennai', '2021-1-12', 1per, 38);

```

Result vs= St. ExecuteQuery (select* from banking);
while (rs.next() != null) {
    System.out.println("Ticketno: " + rs.getInt("tick num"));
    System.out.println("source: " + rs.getString("source"));
    System.out.println("Designation"
        + rs.getString("Destination"));
}
con.close();
ps.close();
}
catch (Exception e) {
    e.printStackTrace();
}
}
}
}

```

Output Connection: Established

Ticketno: 131

source : hyderabad

Destination: Chennai

Ticketno: 130

source: Tamilnades

destination: Kashmir