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Web Programming Assignment-1

18WH1A1237

1. Write a program to find factorial value of any number entered by the user. Using javascript.

```
<html>
<head>
 <script>
 function show() {
    var i,no,fact;
    fact=1;
     no = Number(document.getElementById("num").value);
     for(i=1;i<=no;i++){
        fact*=i;
     }
    document.getElementById("answer").value=fact;
</script>
<head>
 <body>
    Enter num:<input id="num">
           <button onclick="show()">factorial</button>
           <input id="answer">
  </body>
  </html>
```

Output:

```
Enter num: [ 5 ]
[factorial]
[ 120 ]
```

2. In a company an employee is paid as under: If his basic salary is less than Rs.1000 then HRA = 10% of the salary and DA = 90% of salary. If his salary is either equal to or above Rs.1500, then HRA = Rs.500 and DA = 95% of his basic salary. If the employee's salary is input, write the program to find his gross salary. Using javascript eventhandler.

~~<html>~~
~~<body>~~
~~<h1>The Employee Salary</h1>~~
~~Onsubmit~~

Program:

```
<html>
<head>
<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("answer").value = ans;
  }
</script>
</head>
 <body>
   Enter salary: <input id = 'salary'>
   <button onclick = "show()"> Gross Salary </button>
   <input id = "answer">
 </body>
 </html>
```

Output:

```
Enter salary   1203
Gross Salary   20383.16
```

3. Write a program to take a character(c) as input and. check whether the given character is a vowel or a consonant. Using java.

```
class Solution {
    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 1:       Output 2:
  Z               E
Consonant       Vowel
```

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

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

Pgm:

```
class MultiThreadingDemo extends Thread {
        public void run() {
            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 obj = new MultiThreadingDemo();
              obj.start();
           }
   } }
```

Output:

```
Thread 4 is running
Thread 5 is running
Thread 6 is running
Thread 7 is running.
```

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

```
import java.sql.*;
public class Solution {
    public static void main(String args[ ]) {
        Connection con = null;
        Statement stmt = null;
    try {
     class.forName("com.mysql.jdbc.Driver");
     con= DriverManager.getConnection("jdbc.mysql://localhost:3306/Bus,
                                                        "root","1234");
     System.out.println("Connection Established");
     stmt= con.createStatement();
     String sql= "Insert into booking"+values(130,"Hyderabad", "Chennai",
                     "2021-01-12","19:30:10","2021-01-13"19:30:10",
                                   4,"Person1",38);
     stmt.executeUpdate(sql);
     Sql = "Insert into borking"+ values(131,"Hyderabad","Banglore",
               "2021-01-13","2021-01-13 19:10:00","2021-01-14 08:30:10",
                                                  5,"Per2",40);
     Stmt.executeUpdate(sql);
     sql= "Select * from borking";
     Resultset rs = stmt.executeQuery(sql);
     while(rs.next()) {
        System.out.println("Ticketno:"+ rs.getInt("ticketno"));
        System.out.println("Source:"+ rs.getString("source"));
        System.out.println("Destination:"+ rs.getString("Destination"));
        System.out.println("DOJ:"+ rs.getDate("doj").toString());
        System.out.println("Departure:"+ (rs.getTimeStamp(departure).
                                                          toString());
     System.out.println("Arrival"+(rs.getTimeStamp(arrival).toString());
     System.out.println("seat no:"+ rs.getInt("seat no"));
System.out.println("name:"+rs.getSting('name'));
System.out.println("Age:"+rs.getInt("age"));
System.out.println("\n");
}
con.close();
} catch(Exception e) {
    e.printStackTrace();
  }
 }
}
```

Output:-

```
Connection Established
Two records has been inserted successfully
Ticketno:130
Source:Hyderabad
Destination: Chennai
DOJ: 2021-01-12
Departure: 2021-01-12 19:30:10
Arrival: 2021-01-13 19:30:10
Seat no: 4
Name : Person1
Age:38

Ticketno:131
Source: Hyderabad
Destination: Banglore
DOJ: 2021-01-13
Departure: 2021-01-13 19:10:00
Arrival: 2021-01-14 08:30:10
Seat no:5
Name: Per2
Age:40
```