WEB PROGRAMMING ASSIGNMENT - I

1Q. Write a program to find factorial value of any number entered by the user using java script

A)
```
<htm >
<head>
<script >
function show ( ) {
    var i, no, fact.
    fact = 1;
    no = Number ( document . get Element By Id ("num").value);
    for (i=1; i< no; i++) {
        fact = fact * i;
    }
    document . get Element By Id (" 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 ]
```

4a) Describe in detail multithreading concept illustrate with the java code

Ans: Multi Threading 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 Thread. So Threads are light-weight process within a process

Program:

```
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 object= new MultiThreadingDemo();
            object.start();
        }
    }
}
```

Output:
Thread 4 is running   Thread 6 is running
Thread 5 is running   Thread 7 is running

2Q In a company an employee is paid as under: If his basic salary is less than Rs 1500 then HRA = 10% of base 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 the employee's salary is input write the program to find his gross salary Using Javascript event handler?

Ans 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 on click = 'show ()'> Gross salary </button>
<input id = "answer">
</body>
</html>.
```

Output.

Enter salary [1203]

[Groushilay]   [20383·10]

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

Ans: Class {

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 :   out p 2:
   z   A
Consonant   vowel.

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

Ans import java.sql.*;

public class solution {

public static void main(String[] args) {

```java
Connection con = null;
Statement stmt = null;
try {
    Class.forName("Com.mysql.jdbc.Driver");
    Con = DriverManager.getConnection("jdbc:mysql://
                                localhost/Bus, "root",
                                "1234");
    System.out.println("Connection Established");
    stmt = Con.createStatement();
    String sql = "Insert int book" + "values(130,'Hyderabad',
                        'Chennai', '2021-01-12", '19:30:10',
                        '2021-01-13","19:30:10', 4, "Personal",
                        30);
    Stmt.executeUpdate(sql);
    sql = "Insert into Booking" + "values(131, "Hyderabad',
                    'Banglore','2021-01-15", '2021-01-12' 19:10,00'
                    '2021-01-14 08:30:10", 5, "Person", 40);
    Stmt.executeUpdate(sql)
    System.out.println("Two records has successfully
                            inserted");
    sql = "select * from Booking");
    ResultSet rs = Stmt.executeQuery(sql);
    while(rs.next())) {
        System.out.println("Ticket no: " + rs.getInt("ticket
                            no");
        System.out.println("Source:" + rs.get String("source"))
```

```java
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").to
                                     String()));
System.out.println("SeatNo :" + rs.getInt("seatNo"));
System.out.println("name :" + rs.getString("name"));
System.out.println("age :" + rs.getInt("age"));
System.out.println("\n");

}
Con.close()
}
 catch (Exception e) {
     e.printStackTrace();

   }

 }

}

Output:
```

Output:
Connection Established

Two records has been successfully inserted.

Ticket no: 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 : Person 1

Age : 38

Ticket No : 131

Source : Hyderabad

Destination : Banglore

DOJ : 2021-01-13

Departure : 2021-01-13 19:00:00

Arrival : 2021-01-14 08:30:10

Seat No : 5

Name : Person 2

Age : 40 .