

WEB PROGRAMMING ASSIGNMENT

① write a program to find factorial value of any number entered by the user, using java script?

A

```
<html>
  <head>
    <script>
      function show() {
        var i, no, fact;
        fact = 1
        no = Number [document.getElementById("num").value];
        for (i = 1; i ≤ no; i++) {
          fact = 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:

② In a company an employee is paid as under: if his basic salary is less than RS 1000 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 = 95% of basic salary. If the employee's salary is input, write the program to find the gross salary using javascript event handler.

```
</form>
```

```
<script>
```

```
function myFunction() {
```

```
    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 + ((95/100)*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

- ③ write a program to take a character(c) as input
or check whether the given character is a vowel
or a consonant, using java.

(A) class solution {

public static void main (String[] args) {

Scanner sc = new Scanner(System.in);

Character c = sc.next().charAt(0);

if (c == 'A' || c == 'E' || c == 'I' || c == 'O' ||

c == 'a' || c == 'e' || c == 'i' || c == 'o' ||

c == 'A' || c == 'E' || c == 'I' || c == 'O' ||

}

System.out.println(c + " is a vowel");

```

} else {

```

```

    system.out.println("consonant");
}

```

```

}
}

```

output 1:

z

consonant

output 2:

A

vowel.

④ describe in detail Multithreading concept illustrate with the Java code.

① 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 phrases 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++) {
```

```
            MultithreadingDemoObject = new Multithreading  
            object.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 & display, & records with bus ticket reservation information?

(A) 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")
```

```
        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.execute(sql);
```

```
        sql = "insert into booking" +
```

```
            "values(131, 'Hyderabad', 'Bangalore', '2021-01-13',
```

```
                "2021-01-13, 19:10:00",
```

```
                "2021-01-14, 08:30:10", 5
```

```
                "person2", 40);
```

```
        stmt.executeUpdate(sql);
```

```
        system.out.println("two records has been successfully  
                                inserted");
```

```
        sql = "select * from booking";
```

```
Result set rs = stmt.execute(query.sql);
```

```
while (rs.next()) {
```

```
    system.out.println("ticket no: " + rs.getInt("ticketno"));
```

```
    system.out.println("source: " + rs.getString("source"));
```

```
    system.out.println("destination: " + rs.getString("destination"));
```

```
    system.out.println("D.O.S: " + (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("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:-

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 : Bangalore.

DOJ : 2021-01-13

Departure : 2021-01-13 19:10:00

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

seat No : 5

Name : person 2

Age : 46.