

# Web Programming Assignment

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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 :

5

factorial

120

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

A. 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.

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++) {
            Multithreading Demo object = new Multithreading();
            object.start();
        }
    }
}

```

output:-

```

Thread 4 is running
Thread 5 is running
Thread 6 is running
thread 7 is running

```



2. In a company an employee is paid as under: If his basic salary is less than Rs 1500 then HRA = 10% of base Salary and 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 the gross Salary. Using javascript event handler.

A. 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

Cross Salary 2083.16

3. Write a program to take a <sup>ch</sup> character (c) as input and check whether the given character is 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();
        if (c == "A" || c == "E" || c == "I" || c == "O" || c == "U") {
            System.out.println ("vowel");
        } else {
            System.out.println ("Consonant");
        }
    }
}
```

output1:

Z

Consonant

output2:

A

vowel

5. Connect to the database using any of the JDBC drivers. Insert & display 2 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/",  
"root", "1234");

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

Stmt = con.createStatement();

String sql = "Insert into booking +

value(130, "Hyderabad", "Chennai", "2021-01-12",

"14:30:10", "2021-01-13", "14:30:10",

4, "Person1", 88);

stmt.executeUpdate(sql);

sql = "Insert into boollining +

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

"14:10:00", "2021-01-14", "03:30:10", 5,

"Person2", 40);

stmt.executeUpdate(sql);

System.out.println("Two records has been 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.getString("source"));

System.out.println("Destination: " + rs.getString("destination"));

System.out.println("DOJ: " + rs.getDate("DOJ").toString());

System.out.println("Departure: " + rs.getData("DOJ").getDateTimeStamp(<sup>arrival</sup>departure));System.out.println("Arrival: " + rs.getTimeStamp("departure").  
toString());



```

    System.out.Println("Seat no: " + rs.get Int ("seat no"));
    System.out.Println("name: " + rs.get String ("name"));
    System.out.Println("age: " + rs.get Int ("age"));
    System.out.println(" ");
}
con.close();
}
catch (Exception e) {
    e.printStackTrace();
}
}
}

```

output:-

Connection established  
two records has been ~~two~~ successfully inserted.

Ticket no: 180

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 : 4 Person

Age : 38

Ticket no: 181

Source : Hyderabad

Destination : Bangalore

DOJ: 2021-01-13

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

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

Seatno: 5

Name: Person2

Age: 40