

# Web Programming Assignment N Mamatha

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

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 :

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

⑤ 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++) {  
            MultithreadingDemo object = new Multithreading(i);  
            object.start();  
        }  
    }  
}
```

Output:

Thread 4 is running

Thread 3 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 & 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 eventhandlers.

③

```
<html>
<body>
```

The ~~can~~ employee salary <h1>

```
<form action = "myform.html">
```

```
onsubmit = "myfunction()" >
```

```
enter salary: <input type = "text". name = "fname">
```

```
<input type = "submit" value = "submit" >
```

```
</form>
```

```
<script>
```

```
function myfunction() {
```

(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

Factorial 203803.16

Enter salary 1203

GrossSalary 203803.16

③

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

④

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 :

z

Consonant

output 2 :

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 {

static ~~final~~ .  
public static void main (String [] args) {

Connection con = null;  
Statement stmt = null;

try {

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

conn = DriverManager.getConnection ("jdbc:mysql://localhost/Bus",  
"root", "1234");

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

stmt = con.createStatement();

```
String sql = "INSERT INTO booking" +  
              "values(128, 'Hyderabad', 'Chennai', '2021-01-12',  
                    '2021-02-01', '2021-01-14', 'Person1', 38
```

```
String sql = "Insert into booking" +  
              "values(130, 'Hyderabad', 'Chennai', '2021-01-12', '2021-01-13',  
                    '19:30:10', '2021-01-13' 19:30:10',  
                    4, 'Person1', 38);
```

```
stmt.executeUpdate(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 up inserted");
```

```
}  
catch (Exception e) {  
    e.printStackTrace();  
}
```

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

```
ResultSet rs = stmt.executeQuery(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("DOS : " + (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.getString("name"));
```

```
    System.out.println("age : " + rs.getIntAge("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

DoS : 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

DoS : 2021-01-13

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

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

seat no : 5

Name : Person 2

Age : 40