

Web programming Assignment :

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① write a program to find factorial value of any numbers entered by the user. using java script.

```
① <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 base salary is less than Rs 100 then HRA = 10% of base salary & DA = 95% of basic salary. If the employee 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 this gross salary using javascript event handler.

A) `<html>`

`<head>`

`<script>`

function show() {

var no, ans;

no = Number(document.getElementById("salary").value);

```
if (no < 1500) {
```

```
ans = no + ((16/100) * 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 as input & check whether the given character is a vowel or a constant. 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");

output: x : consonant

o/p: A : Vowel.

④ Describe in detail multithreading with 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 thread.

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 Multithread
```

```
            object.start();
```

y y y

O/p:

Thread 4 is running

Thread 5 is running

Thread 6 is running

Thread 7 is running.

b) connect to database using any of the JDBC drivers. Insert & display 2 records with the bus ticket.

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/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',  
    '41', 'person', 38);
```

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

```
sql = "Insert into booking" + "Values (131, 'Hyd',  
    'Banglore', '2021-01-13', '2021-01-13', '19:10:00',  
    '2021-01-14', '08:30:10')";
```

```
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).toString());
```

```
System.out.println("Departure: " + rs.getTimestamp(  
(departure).toString());
```


Y
concurrency

Y

catch(exception e) {

e.printStackTrace();

Y

Y

Y

O/p:

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 : penon1

Age : 38