

1) Write a Program to find Factorial Value of any numbers Entered by the user JavaScript.

A) <html>

<head>

<script>

function Showc(){

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 = "Showc()"> Factorial </button>

<input id = "answer">

</body>

</html>

Output:- Enter num:

Factorial

2) In a Company an Employee is Paid as under  
his basic Salary is less than Rs 1500 from  
HRA = 10% of base Salary & DA = 90% of Salary  
If his Salary is Either Equal to or above  
Rs 1500, then HR = Rs 500 & DA = 95% of basic  
Salary.

```
A) <html>
    <head>
    <script>
    function ShowC() {
```

```
    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 = "ShowC()"> Gross Salary / button
```

```
    <input id = "answer">
```

```
    </body>
```

```
    </html>
```

Output:-

Enter Salary 1203

Gross Salary 20383.16

3) write a Program to take a Character(c) as input & Check whether the Given Character is vowel or Consonant.

A) Class Solution §

```
Public Static void main (String[] args) §
```

```
Scanner sc = sc.next();
```

```
if (C=="A" || C=="E" || C=="I" || C=="O" ||  
C=="U") §
```

```
System.out.println("vowel");
```

```
§
```

```
else §
```

```
System.out.println("Consonant");
```

```
§ § §
```

Output:- 1) 2

Consonant

2) A

Vowel.

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 Thread.

Program:-

```
Class Multithreading Extends Thread {  
    Public void main() {  
        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



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

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", "12345678");

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",  
4, "Person1", 38);

stmt.executeUpdate(sql);

sql = "Insert into booking" + " values (131, 'Hyderabad',  
"banglore", "2021-01-13", "2021-01-13", "19:10:00", "2021-01-14",  
08:30:10", 5, "Person2", 40);

stmt.executeUpdate(sql);

System.out.println("400 records has become  
Successfully inserted");

sql = "Select \* from booking";

ResultSet rs = stmt.executeQuery(sql);

```
While (rs.next()) {
```

```
System.out.println("Ticketno:" + rs.getInt("ticketno"));
```

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

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

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

```
System.out.println("Arrival:" + rs.getTimestamp("arrival")  
+ toString());
```

```
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();
```

```
} }
```

O/p:- Connection Established

Two records has be 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

Seatno: 4

Name: Person1

Age: 38

Ticketno: 131

Source: Hyderabad

Destination: Bangalore

DoJ: - 2021-01-13

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

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

Seatno: 5

Name: Person 2

Age: 40