

WP Assignment

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1) Write a program to find factorial value of any number given by user using J.S.

```
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 :

Factorial :

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

4) Multithreading allows concurrent execution of more parts of program for maximum utilization of CPU. Each part is called thread. 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();  
            object.start();  
        }  
    }  
}
```

3
o/p:

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

② Program :

<html>

<head>

<script>

function show() {

var, no, ans;

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

if (no < 1500) {

ans = no + $\left(\frac{10}{100}\right) * no + \left(\frac{10}{100}\right) * no$;

}

else {

ans = no + 500 + $\left(\frac{98}{100}\right) * no$;

}

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

Gross salary

3) write a prog to take character (c) as input and check whether it is a vowel or 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");
```

```
}
```

```
}
```

```
}
```

O/p:

z
consonant

O/p:

A
vowel

5) Connect to data base using any of 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/Bus", "root", "1234");
```

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

stmt = con.createStatement();

String sql = "Insert into booking" + "values(130, 'Hyd', 'Chennai', '2021-1-12'" + "19:30:10', '2021-01-15', '19:30:10', 4, 'Person1', 38);

stmt.executeUpdate(sql);

sql = "Insert into booking" + "values(131, 'Hyderabad', 'Bangalore', '2021-1-13', '2021-1-13', '19:10:00', '2021-1-14', '08:30:10', 5, 'Person2', 40);

stmt.executeUpdate(sql);

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

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 ("DOJ : " + (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.getInt("age");

system.out.println ("\n");

}

con.close();

}

catch (Exception e) {
 printStackTrace();

}

Output :

connection established

two records has been successfully inserted

Ticket no : 130

Source : Hyderabad

Destination : Chennai

DDT : 2021-1-12

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

DDT : 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