

- ① write a program to find factorial value of any numbers 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 :

- 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

Q1 CPU. Each part of such program is called a thread.
So threads are light-weight processes within a process.

Program:

```
class Multithreading Demo 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.

- Q2 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 1500 & DA = 98% of basic salary. If the employee's salary is input, write the program to find his gross salary.
using JavaScript event handler.

```

<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

factorial 20385.16

Enter salary

3) Write a program to take a character (c) as i/p & check whether the given character is a vowel / a

consonant . using java.

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: output 2;

z A
consonant vowel.

- ⑤ Connect to the database using any of the JDBC drives.
Insert & display 2 records with bus ticket reservation info.

A. import java.sql.*;
public class solution {

static
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', '2021-9-12',

```

"19:30:10", "2021-01-13" 19:30:10", 4, "Person1", 38);
stmt.execute Update (sql);
Sql = "Insert into booking" + "values (131, "Hyderabad ", "Bangalore
      " 2021-01-13", "2021-01-13", 19:30:00", "2021-01-14
      08:30:10", 5, "Person 2", 40);
stmt.execute Update (sql);
System.out.println ("two records has been successfull up
      inserted");
Sql = "select * from booking";
Result set rs = stmt1 execute Query (sql);
while (rs.next()) {
    System.out.println ("Ticket no: " + rs.get Int ("Ticketno"));
    System.out.println ("Source:" + rs.get string ("source");
    System.out.println ("Destination:" + rs.get string ("destination"));
    System.out.println ("DOJ: " + (rs.get Date ("doj")).toString());
    S.o.pln ("Departure : " + (rs.get Timestamp (departure)).to
      string());
    S.o.pln ("Arrival : " + (rs.get Timestamp ("arrival")).toString());
    S.o.pln ("seat no : " + rs.get Int ("Seat no"));
    S.o.pln ("name:" + rs.get string ("name"));
    S.o.pln ("age:" + rs get Int ("age"));
    S.o.pln ("\n");
}
}
catch (exception e) {
    printStack Trace();
}
}

```

Output:-

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

Seatno : 4

Name : Person 1

Age : 38

Ticket no : 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