Web programming Assignment-I 18UIH1A1245

1. Write a program to find factorial value of any numbers involved 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: 5

factorial 120

2.) In a company an employee is paid as under: If his basic salary is less than Rs. 1500 then HRA = 10% of basic salary and 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 Java script commands.

A.

```
<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);
    }
    document.getElementById("answer").value = ans;
}
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 [2383.16]

3. Write a program to take a character (c) as input and check whether the given character is vowel or a 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");
        }
    }
}
```

output: z
consonant

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 problem for maximum utilization of CPU. Each part of such program is called thread. So threads are light weight process 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++){
            Multithreading Demo. object = new. Multithreading();
            object.start();
        }
    }
}
```

output:

Thread 4 is running

Thread 5 is runng

Thread 6 is running

Thread 7 is runnang

5. connect to the database using any of the JDBC drivers. Insert and display 2 records with bus tickets reservation information.

A.

```
import java.sql.*;
public class solution{
    public static void main(String args[]){
        connection con = null;
        Statement st = null;
        try{
            Class.forName("com.mysql.jdbc.driver");
            con = DriverManager.getConnection("jdbc.mysql://localhost/
            Bus, "root", "1234");
```

```
System.out.println("connection established");
st = con.createStatement();
String sql = "Insert into booking" + "values (130, "Hyderabad",
    "chennai", "2021-01-12", "19:30:10", "2020-01-13",
    "19:30:10", 4, "Person1", 38);
st.executeUpdate(sql);
sql = "Insert into booking" + "values (131, "Hyderabad", "Bangalore",
    "2021-01-13", "2021-01-13", "19:00:00", "2021-01-14",
    "01:30:10", 5, "Person2", 40);
st.executeUpdate(sql);
sql = "select * from booking";
ResultSet rs = st.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("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("in");
}
```

```
            con.close();
        }
        catch(exception e){
            e.printStackTrace();
        }
    }
}
```

Output :

Connection established

Two records has been succesfully inserted

Ticket no : 130

source : Hydrabad

Destination : Chennai

DOJ : 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 : Hydrabad

Destination : Bombay.

DOJ : 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