

Web Programming Assignment

18WHA1247
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Q1. write a program to find factorial value of any number entered by the user using javascript.

Ans.

```
<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

Q2.

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 the gross salary,

using javascript event handler.

Ans:

Program:

<html>

<head>

<script>

function show() {

var no, ans;

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

if (no < 1500) {

ans = no + ((6/100) * no) + ((90/100) * no);

} else {

ans = no + (500 + ((98/100) * no));

}

document.getElementById("answers").value = ans;

}

</script>

</head>

<body>

Enter salary: <input id = "salary">

<button onclick = "show()"> gross salary </button>

<input id = "answers">

</body>

</html>

output:

Enter salary

Gross salary

Q3.

write a program to take a character (c) as input and check whether the given character is a vowel or a consonant using java.

Ans.

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 z

consonant

② A

vowel.

Q4.

Describe in detail multi-threading concept illustrate with the java code.

Ans.

Multi-threading 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 a thread. So 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(i);  
            object.start();  
        }  
    }  
}
```

Output:

Thread 1 is running
Thread 2 is running
Thread 3 is running

Q5. Connect to the database using any of the JDBC drivers.
Insert and display 2 records with bus ticket reservation
information.

Ans:

```
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:  
1666"/"root", "root", "root");
```

```
    System.out.println ("connection established");
```

```
    stmt = con.createStatement();
```

```
    String sql = insert into booking values (130,  
        "Hyderabad", "Chennai", "2021-11-12",  
        "19:30:10", "2021-01-13", "19:30:10", 4,  
        "Person 1", 38);
```

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

```
    sql = insert into booking values (131, "Hyderabad",  
    "Bangalore", "2021-01-13", "2021-01-13 19:10:00",  
    "2021-01-14 08:30:10", 5, "Person 2", 40);
```

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

```
    System.out.println ("2 records have been successfully  
executed");
```

```
    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"));
```

```
        System.out.println ("DOJ: " + (rs.getDate ("doj")).toString());
```

```
        System.out.println ("Departure: " + rs.getTimeStamp ("departure").  
to string());
```

```

        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

2 records have been successfully executed.

Ticket no: 130

source: Hyderabad

destination: Chennai

DDT: 2021-01-12

Departure: 2021-01-12 17:30:10

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