

WP Assignment-1

- ① Write a Program to find factorial value of any number entered by the user. Using java script.

A

< hfm />

< head >

< script >

function show < > {

var i, no, fact;

fact = 1;

no = 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 >

< /body >

< /hfm />

Output :Enter num:

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 500 & DA = 98% of basic salary. If the employee's salary is input, write the program to find this gross salary using java script.

A) </form>
< script >
function my functions {

Program.

< hfm l >

< head >

< script >

function show() {

Var no, ans;

no = Number (document get element by Id ("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>

out put :

enter salary

Gross salary

Write a program to take a character (c) as input check whether the given character is a vowel or 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 : output :

= A

consonant vowel

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

① Multithreading in java allows concurrent execution of two or more parts of a program for minimum utilization of CPU. Each part of such program is called thread.

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 = 9;
```

```
        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 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:3306/booking", "root", "1234");
```

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

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

```
            String sql = "Insert into booking ("
```

```
                "values(130, "Hyderabad", "Chennai", "2021-12",
```

```
                    "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", 2021-01-14
```

```
19:10:00", "2021-01-14 08:30:10",
```

```
5, "person", 40);
```

```
stmt . execute update (sql);
```

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

```
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")).toString())
```



```
System.out.println("Arrival:" + rs.getTimeStamp("arrival")) to string);
```

```
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("Departure" ("Departure"));
```

```
}
```

```
con.close();
```

```
}
```

```
catch (Exception e) {
```

```
    PrintStacktrace();
```

```
}
```

```
}
```

```
}
```

Out put :

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

Seat no : 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

Seat no : 5

Name : Person 2

Age : 40