

# WEB PROGRAMMING ASSIGNMENT

18WH1A1209

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- Write a program to find factorial value of any number entered by the user. Using javascript.

A.

```

<html>
<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>
<input id = "answer">
</body>
</html>
    
```

Output:

Enter num:

2. In a company an employee is paid as under:  
If his basic salary is less than Rs 1500 then  
 $HRA = 10\%$  of the 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 its gross salary. Using javascript  
eventhandlers.

A. Program:

```
<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 [120]
[Gross Salary] [20383.16]

```

3. Write a program to take a character  $c$  as input & check whether the given character is a 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 1:

z

consonant

output 2:

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 program for a maximum utilization of CPU. Each part of such program is called a thread. So threads are light-weight process within a process.

Program:

```
class Multithreading 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=5;
```

```
        for (int i=0; i<n; i++) {
```

```
            Multithreading Demo object = new Multithreading
```

object.start();

3

1

1

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 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',

2021-11-12, '19:30:10', '2021-01-13');



"19:30:10", 4, "Person", 38);

st.executeUpdate(sql);

sql = "insert into booking"

"values (13, 'Hydrabad', 'Banglore',

"2021-0-13", "2021-01-13" "19:10:00",

"2021-01-14" "08:30:10", 5, "Person",  
40);

st.executeUpdate(sql);

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

sql = "select \* from booking";

ResultSet rs = st.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") + 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) {
    e.printStackTrace();
}
}
}
)

```

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

Seat no : 9

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.