

Web Programming Assignment-1

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- Q1 Write a program to find factorial value of any number entered by the user using Javascript.

```
<html>
<head>
<script>
function show() {
    var p, no, fact;
    fact = 1;
    no = Number(document.getElementById("num").value);
    for (p = 1; i ≤ no; i++) {
        fact = fact * p;
    }
    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
```

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 & 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 script event handler.

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 1203

factorial 1203803.16

Enter salary 1203

Gross salary 120383.16

- 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 == "B" || c == "I" || c == "O" || c == "U")
```

```
System.out.println ("vowel");
```

```
else {
```

```
System.out.println ("consonant");
```

```
}
```

```
}
```

Output 1 :-

=
Consonant

Output 2 :-

A
vowel.

④ Describe in detail multithreading concept illustrate with the Java code

Multithreading 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 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 obj = new Multithreading();

obj.start();

}

}

Output:-

Threads running

Thread 5 is running

Thread 6 is running

Thread 7 is running.

5) Construct to the database using any of the JDBC drivers.

Insert & display 2 records with the 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/test", "root", "1234");

 System.out.println("Connection established");

 stmt = Con.createStatement();

 String sql = "Insert into booking " + "values(130, 'hyd',
 'Chennai', '2021-09-12', '19:30:16',
 '2021-01-13', '19:30:10', 4, 'Person',
 38);";

 stmt.executeUpdate(sql);

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

 sql = "Select * from booking";

```
Result get rs = stmt.executeQuery(sql);
while(rs.next()){
    System.out.println("Ticket no : " + rs.getInt("Ticketno"));
    System.out.println("Source : " + rs.getString("Source"));
    System.out.println("Destination : " + rs.getString("destination"));
    System.out.println("DoJ : " + (rs.getData("DoJ")).toString());
    System.out.println("Departure : " + (rs.getTimestamp("departure")).toString());
    System.out.println("Arrival : " + (rs.getTimestamp("arrival")).toString());
    System.out.println("seatno : " + rs.getInt("seatno"));
    System.out.println("name : " + rs.getString("name"));
    System.out.println("age : " + rs.getInt("age"));
    System.out.println("\n");
}
catch(Exception e){
    e.printStackTrace();
}
```

Output 6:

connection established

two records has been successfully inserted

Ticketno % 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 % Person1

Age % 38

Ticket no. 131

Source : Hyderabad

Destination : Bangalore

DOJ % 2021-01-13

Departure % 2021-01-13 19:10:05

Arrival % 2021-01-14 08:30:10

Seatno % 5

Name: Person2

Age % 40