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18WH1A1206

# Web Programming Assignment

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

A.)
```
<html>
<head>
<script>
function show (){
var i, no, fact;
 fact =1;
no = Number (document. getElement ById ("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 Rs1500 than HRA = 10% of base salary & DA = 90% of salary.

If his salary is either equal to (or) above Rs 1500, than HRA = Rs 500 & DA = 95% of basic salary. If the employee salary is input , write the program to find his gross salary . Using javascript event handes.

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);
    }
  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   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 == "B" || 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 maximum utilization of CPU. Each part of such program is called a thread. so, threads are light weight processes within a process.

Program:-

```
  class MultiThreading Demo extends Thread {
      public void run() {
          try {
          system.out.println (" Thread"+ Thread.current Thread().
                    get Id() +"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();
          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.get connection ("jdbc: mysql: // local
      -host /Bus|" root ", "1234");
   system.out.println ("connection established");
      stmt = con.create Statement ();
string sql = "Insert mts booking "+"values (131, "Hyderabad",
     "Bangalore", "2021-01-13", 2021-01-13 19:10:00 ","
     2021-01-14 08:30:10", 5, "person2", 40);
 stmt.executeupdate (sql);
system.out.println ("two records has been successfully inserted");
   sql = "select * from booking ";
  Result set rs = stmt.execute Query (sql);
 while (rs.next()) {
system.out.println ("Ticket no:" + rs.get Int ("ticket no"));
system.out.println ("source:" + rs.getstring ("source"));
system.out.println ("Destination:" + rs.getstring ("destination "));
system.out.println ("DOJ :" + (rs.get.Date ("doj ")) tostring ());
system.out.println ("Departure:" + (rs.get TimeStamp ("departure "))
                                   tostring ());

system.out.println ("Arrival:" + (rs.get Timestamp ("arrival")).tostring());
system.out.println ("seat no:" + rs get Int ("seat no"));
system.out.println ("name:" + rs.getstring ("name"));
system.out.println ("age:" + rs.get Int ("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 : 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.
```