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18WH1A1241

WP Assignment

① Write program to find the factorial value of any numbered entered by the used using Javascript.

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

```
document.getElementById("ans").value=fact;
</script>
Enter number <input id='num' placeholder='number' type=
'number')
<button onclick='show()'>Factorial</button><br>
<label id='ans'> 0 </label>
</body>
</html>
```

Output Enter number [5]

[Factorial]

120

(7) In a company an Employee is paid as under: If his raise is less that 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 is input, write the program to find this goes salary. using Javascript Eventhandlers.

Ans
```
<html>
<head>
<title> Gross salary </title>
</head>
<body>
<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("ans").value = ans;
}
</script>
Enter salary : <input id='salary'>
<button onclick='show()'> Gross salary </button>
<label id='ans'>0</label>
</body>
</html>
```

output

Enter salary [1203]

[Gross salary]

20383.16

③ Write a program to take character (c) as input & check whether this given character is a vowel or a consonant using Java.

```
Class Solution {
    Public static void main (string[] args) {
        Scanner sc = new Scanner (system.in);
        c = sc.next();
if (c=='A' || c=='E' || c=='I' || c=='O' || c=='U'){
 system.out.println("vowel");
} else if (c=='a' || c=='e' || c=='i' || c=='o' || c=="U"){
    system.out.println ("vowel");
} else {
 system.out.println ("consonent");
    }
}
```

Output

Z

Consonent

A

Vowel.

(4) Describe in detail multithreading concept illustrate with the Java code.

Ans:- Multithreading in Java allows concurrent execution of two or more parts of a program for maximum utilization of cpu. Each point of such program is called a thread So. threads are light - weight processes with in a 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 MultiThreadingDemo();
    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 display 2 records with bus ticket reservations information

```
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", "root");
  System.out.println ("Connection established");
      st = con.createstatement();
      st = execute update ("Insert into booking values
  (131, "hyderabad", "chennai", "2021-01-12",
       "19:30", 4, "person1", 38).
      st.execute update ("Insert into booking values
       (130, Vijayawada, hyderabad, "2021-01-30
        "9:30" 5, Person2 42)).
```

```
Resultset rs = st.executeQuery (select * from booking);
while (rs.next()) {
  System.out.println ("Ticket no:" + rs.getInt ("ticket number"));
  System.out.println ("source :" + rs.getString("source"));
  System.out.println ("Designation + rs.getString ("destination");

  }
  Con.close ();
  st.close();

}
catch (exception e) {
    e.printstackTrace();

 }
}
```

Output

Connection established

Ticket no : 131

Source : Hyderabad

Ticket no 130

source : Vijayawada

destination : Hyderabad