

Web Programming

Assignment-1

19WH5A1205

- ① write Program to find the factorial value of any number entered by the user using javascript.

Ans

```
<html>
<head>
<title> factorial </title>
</head>
<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'. Place holder = 'number'. type = 'number'>
<button onclick = 'show()'> factorial </button> <br>
<label id = 'ans'> 0 </label>
</body>
</html>
```

output : Enter number :

5

factorial

② 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 and DA = 98% of basic salary is input, write the program to find this gross salary. Using JavaScript event handlers.

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'> </label>

</body>

</html>

Output :

enter salary

Gross salary

20383.16.

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

Ans

class Solution {

public static void main (String [] args) {

Scanner sc = new Scanner (System.in);

char c = sc.next();

if (c == 'A' || c == 'B' || 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(" consonant ");
```

```
}
```

```
}
```

```
}
```

Output

2

Consonant

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 part of such Program. is called a 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) {
```

```
            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.
Insert and display 2 records with bus ticket reservation
information

Ans:

```
import class Solution {
```

```
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. create statement ();
```

```
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", "2021-01-20", "9:30", 5,  
"Person2", 40));
```

```
ResultSet rs = st. execute query (select * from booking);
```

```
while (rs. next ()) {
```

```
System.out.println ("Ticket no: " + rs. getInt ("ticket number"));
```

```
System.out.println ("Source: " + rs. get String ("source"));
```

```
System.out.println ("Destination: " + rs. get String ("destination"));
```

```
}
```

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

```
st. close ();
```

```
}
```

```
catch (exception e) {
```

```
e. Print stackTrace ();
```

```
}
```

```
}
```

Output :

Connection established

Ticket no: 131

source : hyderabad

destination : chennai

Ticket no : 130

Source : vijayawada

destination : hyderabad.