

## Web Programming Assignment - I

18WH1A1239.  
Nalla Varsha.

01.) Write program to find the factorial value of any number entered by the user. Using Javascript.

```
<html>
<head>
<title> factorial </title>
</head>
<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 numbers : <input id = 'num', place holder = "numbers". type = 'number' >
<button onclick = 'show()' > factorial </button> <br>
<label id = 'ans' > 0 </label>
</body>
</html>
```

Output:- Enter Number :

120

02) In a company an employee is paid as under: if his raise salary is less than Rs. 1500 then HRA = 10% of base salary & Base 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 gross salary. Using javascript event handlers.

```
<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   
  
 20383.16



03) Write a program to take a 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);  
        Character c = sc.next();  
        if (c == 'A' || c == 'B' || c == 'D' || 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:

Z  
consonant  
A  
vowel

04) 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 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 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++) {
            Multithreading Demo.Object = new Multithreading Demo ();
            Object.start ();
        }
    }
}

```

Output:

Thread	4	is	funning
Thread	5	is	"
Thread	6	is	"
Thread	7	is	"

05) Connect to the database using any of the JDBC drivers. Insert & display 2 records with bus ticket reservation information.

[illegible]



```

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, "person 1", 38));
st. execute update ("Insert into booking values (130, "vijayawada", "hyderabad",
    "2021-01-20", "9:30", 5, "prsn 2", 40));

ResultSet rs = st. executeQuery ("select * from booking");
while (rs.next()) {
    system.out.println("Ticket no: " + rs. get Int ("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. printStackTrace ();
}
}
}
}

```

Output :

```

Connection established
Ticket no : 131
Source : Hyderabad
Destination : Chennai
Ticket no : 130
Source : Vijayawada
Destination : Hyderabad

```