

# ABESIT

**COLLEGE CODE - 290** 

# **Lab File**

NAME	SANDEEP KUMAR SHUKLA
BRANCH	CSE
UNIVERSITY ROLL NO.	1729010140
SESSION	2019-20
NAME OF LAB	Web Technology Lab (RCS 554)

**Aim**: Write a program to use basic tags, links, list, tables, images, videos and also implement frameset.

# Code:-

```
<html>
<head>
 <title>Basic HTML Tags</title>
</head>
<body>
 <h1 style="text-align:center;">Basic HTML Tags</h1> <hr>
 List of Subjects:-
 <0|>
  English
  Hindi
  Maths
  <hr>
 <img src="book.jpg" height="50px" width="70px"> <hr>
 List of Subjects
  1.
   English
  2.
   Hindi
  <hr>
 <h5>Simple Video</h5>
```

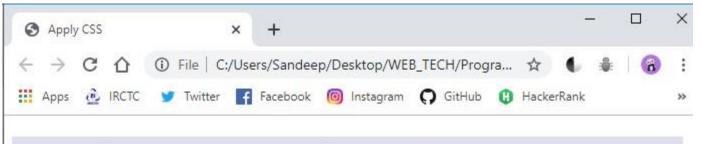


**Aim**: Apply CSS to change a certain portion, Bold, Italic, and Underline certain words in your HTML web pages.

# Code:-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
 <meta charset="utf-8">
 <title>Apply CSS</title>
 </head>
 <body>
  <div style="height:50px;width:98%;background-color:#dedef0;">
   <h1 style="text-align:center; text-decoration:underline;font-family:cursive;">Applying CSS to change Certain
Portion</h1>
  </div> <br><br>
  <hr width="40%">
  <div style="height:300px;width:98%;background-color:#f8f8f8;">
   <span style="font-weight:bold;">Name :</span> Sandeep Kumar Shukla <br>
   <span style="font-weight:bold;">RollNo. :</span>1729010140 <br>
   <span style="font-weight:bold;">College :</span> ABES Institute of Technology <br>
   <div style="text-align:center;background-color:#eef5b2">
    <h2>Welcome in the world of <span style="text-decoration:underline;font-family:cursive;">Web
Tech</span></h2>
   </div>
 </div>
 <hr width="40%">
 </body>
</html>
```

# Output :-



# Applying CSS to change Certain Portion

Name: Sandeep Kumar Shukla

RollNo.:1729010140

College: ABES Institute of Technology

Welcome in the world of Web Tech

# **Aim**: Write a program using HTML and CSS to create a menu.

# Code:-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>Menu</title>
 <style media="screen">
  .navbar {
   overflow: hidden;
   background-color: #110133;
   position: fixed;
   top: 0;
   width: 100%;
  .navbar a {
   float: left;
   display: block;
   color: #f2f2f2;
   text-align: center;
   padding: 14px 16px;
   text-decoration: none;
 </style>
</head>
<body>
 <div class="navbar">
  <a href="#home">Home</a>
```

```
<a href="#news">News</a>
<a href="#news">Features</a>
<a href="#news">Pages</a>
<a href="#news">Download</a>
<a href="#contact">Contact</a>
</div>
<div style="margin-top: 100px;margin-left:20%">
<h1>This is menu using HTML and CSS.</h1>
</div>
</body>
</html>
```



This is menu using HTML and CSS.

# **Aim**: - Wrirte a program to invoke External CSS in HTML.

# Code :-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
 <meta charset="utf-8">
 <title>External CSS</title>
 <link rel="stylesheet" href="Styles.css">
 </head>
 <body>
 <div class="heading">
  <h1>Khao Piyo Restaurants</h1>
 </div>
 <div class="div_style">
 <h3>Address:</h3>
 Sandeep Kumar Shukla
 ABES Chipiyana Road, Jaat Chowk, Mahaveer Market, Ghaziabad (U.P.)
 9559123391
 </div>
 </body>
</html>
                                            CSS CODE
h1{
text-align: center;
font-size: 64px;
}
```

```
.heading{
  border: 2px solid black;
  border-radius: 5px;
  background-color: #beebe9;
}
.div_style{
  border: 2px solid black;
  border-radius: 5px;
  height: 300px;
  width: auto;
}
```

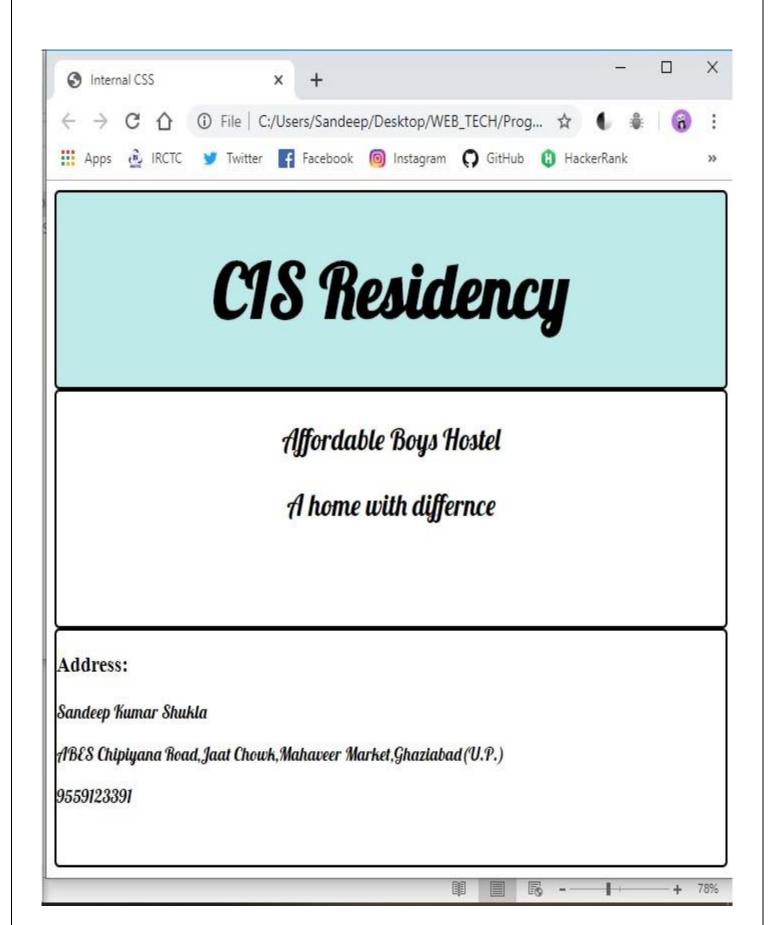


# **Aim**: - Wrirte a program to invoke Internal CSS in HTML.

# Code :-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>Internal CSS</title>
 <link href="https://fonts.googleapis.com/css?family=Lobster&display=swap" rel="stylesheet">
 <style media="screen">
  h1 {
   text-align: center;
   font-size: 64px;
   font-family: 'Lobster';
  }
  .heading {
   border: 2px solid black;
   border-radius: 5px;
   background-color: #beebe9;
  .div_style {
   border: 2px solid black;
   border-radius: 5px;
   height: 200px;
   width: auto;
  }
  p {
   font-family: 'Lobster';
```

```
.p_style {
  text-align: center;
  font-size: 25px
 }
 </style>
</head>
<body>
<div class="heading">
 <h1>CIS Residency</h1>
 </div>
 <div class="div_style">
 Affordable Boys Hostel
 A home with differnce
 </div>
 <div class="div_style">
 <h3>Address:</h3>
 Sandeep Kumar Shukla
 ABES Chipiyana Road, Jaat Chowk, Mahaveer Market, Ghaziabad (U.P.)
 9559123391
 </div>
</body>
</html>
```

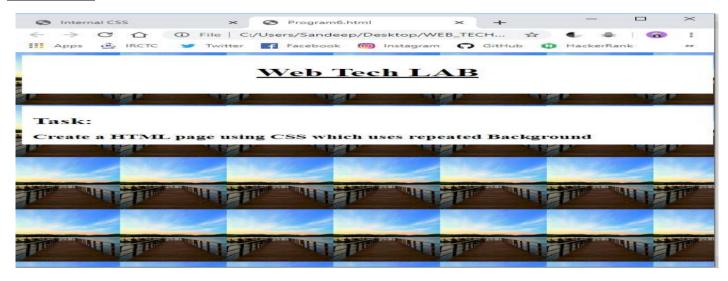


# **Aim**: - Create one HTML using CSS which repeat background image.

# Code :-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title></title>
 <style media="screen">
  h1 {
   text-decoration: underline;
   text-align: center;
   color: black;
 }
  h2,
  h3 {
   color: color;
  .heading_style {
   height: 90px;
   width: 98%;
   background-color: white;
  img {
   height: 100px;
   width: 100px;
   padding: 20px;
```

```
body {
   background-image: url("https://images.pexels.com/photos/1227520/pexels-photo-
1227520.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500");
   background-repeat: repeat;
   background-size: 100px 150px;
  }
  div {
   padding: 10px;
 </style>
</head>
<body>
 <div class="heading_style">
  <h1>Web Tech LAB</h1>
 </div><br><br>
 <div class="heading style">
  <h2>Task:</h2>
 <h3>Create a HTML page using CSS which uses repeated Background</h3>
 </div>
</body>
</html>
```

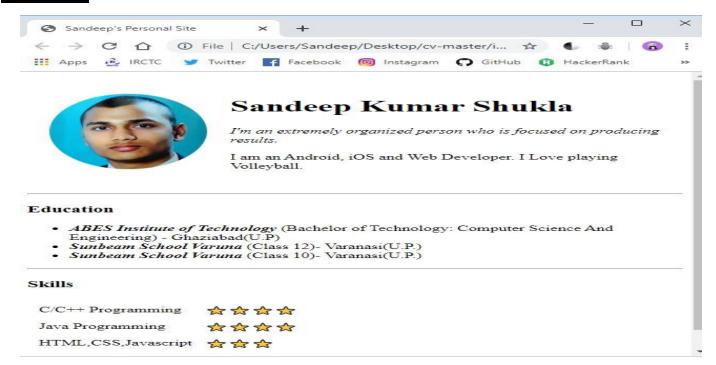


# Aim: Write HTML to Display your CV.

# Code:-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>Sandeep's Personal Site</title>
</head>
<body>
<img src="./images/sandeep profile picture.png" alt="Sandeep Profile Picture" height="150"
width="150">
  <h1>Sandeep Kumar Shukla</h1>
  <em>I'm an extremely organized person who is focused on producing results.</em>
  I am an Android, iOS and Web Developer. I Love playing Volleyball.
  <hr>
<h3>Education</h3>
<em><strong>ABES Institute of Technology </strong></em>(Bachelor of Technology: Computer Science)
And Engineering) - Ghaziabad(U.P)
 <em><strong>Sunbeam School Varuna </strong></em>(Class 12)- Varanasi(U.P.)
 <em><strong>Sunbeam School Varuna </strong></em>(Class 10)- Varanasi(U.P.)
<hr>
<h3>Skills</h3>
```

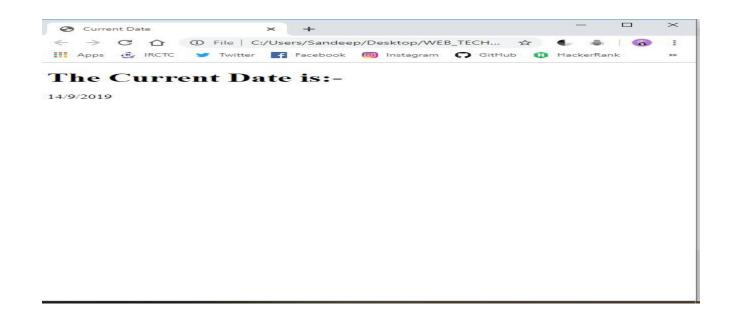
```
C/C++ Programming
  * * * * 
 Java Programming
  * * * * 
 HTML,CSS,Javascript
  * * * 
 <hr>
<a href="hobbies.html">My Hobbies</a>
<a href="contact-me.html">Contact</a>
</body>
</html>
```



# **Aim**: - Write a program to print date using Javascript.

# Code:-

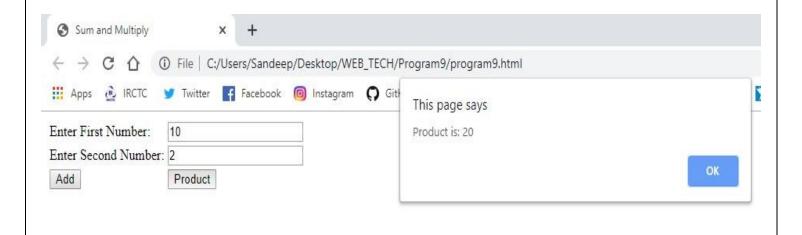
#### **HTML CODE**



**Aim**: - Write a program to sum and multiply two numbers using Javascript.

# Code :-

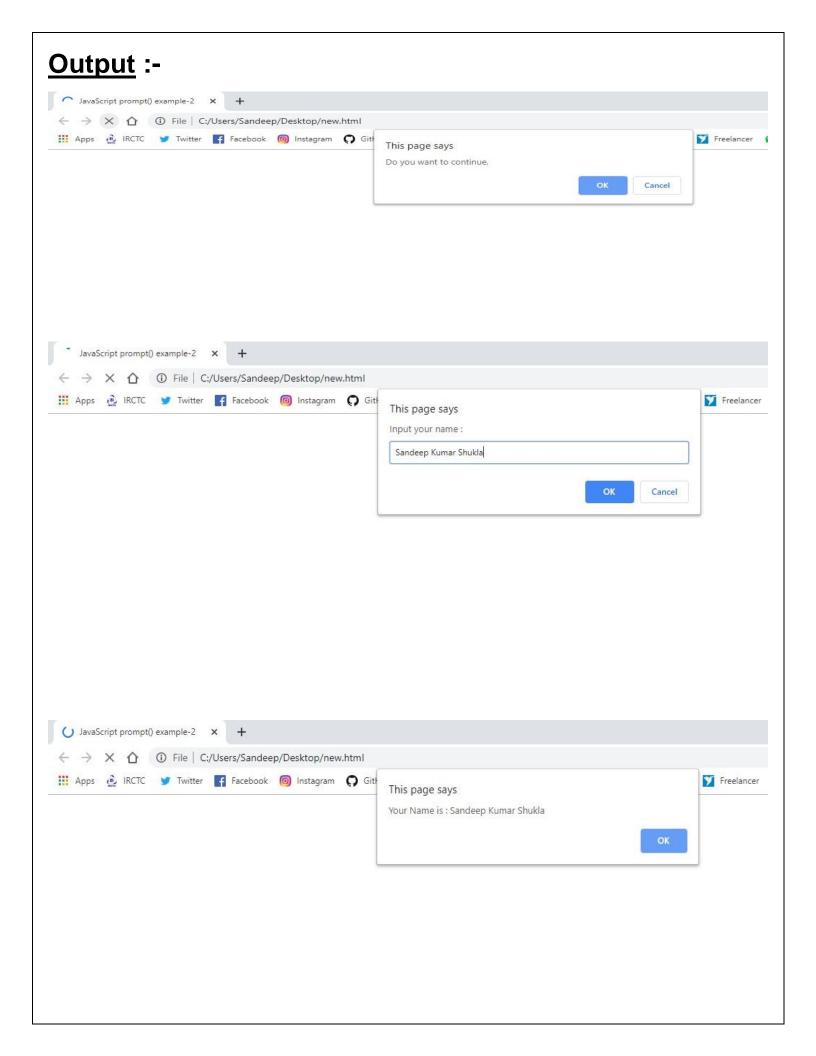
```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>Sum and Multiply</title>
</head>
<body>
 <script>
 function add() {
  var num1 = document.form.text1.value;
   var num2 = document.form.text2.value;
   var sum = Number(num1) + Number(num2);
   alert("Sum of two numbers is: " + sum);
 function product() {
  var num1 = document.form.text1.value;
   var num2 = document.form.text2.value;
   var sum = Number(num1) * Number(num2);
  alert("Product is: " + sum);
 </script>
 <form name="form">
 Enter First Number:
```



# **<u>Aim</u>**: Write a program to show use of alert, confirm, prompt box.

# Code :-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title></title>
</head>
<body>
 <script type="text/javascript">
  mess1 = 'Do you want to continue.';
  x = confirm(mess1);
  if (x == true) {
   visiter_name = prompt("Input your name : ");
   if (visiter_name != null && visiter_name != "")
    alert("Your Name is : " + visiter_name);
   else
    alert("Blank name ...!");
  } else {
   alert("You have clicked on Cancel Button.");
  }
 </script>
</body>
</html>
```



Aim: Write a program to add two numbers using "Prompt Box" in JavaScript.

# Code:-

#### **HTML CODE**

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>ADDITION</title>
</head>
<body>
<SCRIPT LANGUAGE="JavaScript">

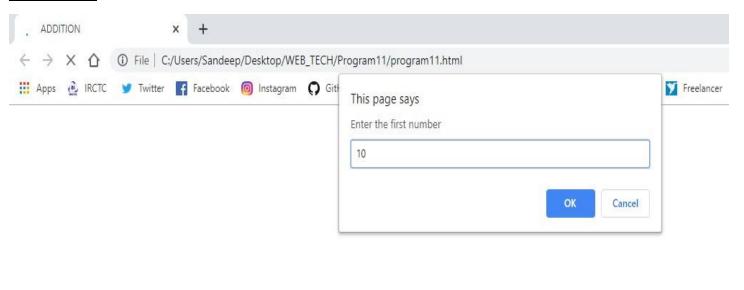
var first_number = parseFloat(prompt("Enter the first number", ""));

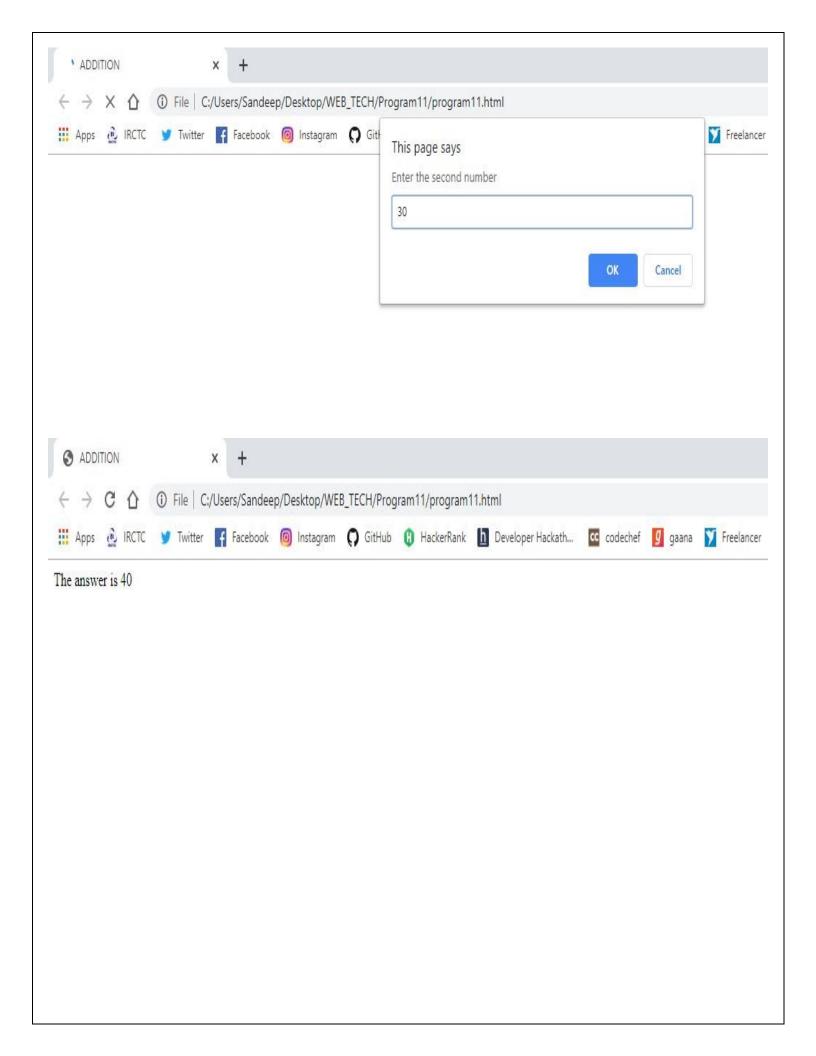
var second_number = parseFloat(prompt("Enter the second number", ""));

var answer = first_number + second_number;

document.write("The answer is " + answer);

</SCRIPT>
</body>
</html>
```





<u>Aim</u>: - Create a registration form and put validation check on values entered by the users using JavaScript. Also stop user submitting blank form.

# Code:-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>Form Validation</title>
 <link rel="stylesheet" href="Styles.css">
 <script src="sample.js"></script>
</head>
<body onload="document.registration.userid.focus();">
<h1>Registration Form</h1>
Use tab keys to move from one input field to the next.
<form name='registration' onSubmit="return formValidation();">
<label for="userid">User id:</label>
<input type="text" name="userid" size="12" />
<label for="passid">Password:</label>
<input type="password" name="passid" size="12" />
<label for="username">Name:</label>
<input type="text" name="username" size="50" />
<label for="address">Address:</label>
<input type="text" name="address" size="50" />
<label for="country">Country:</label>
<select name="country">
<option selected="" value="Default">(Please select a country)
<option value="AF">Australia
<option value="AL">Canada</option>
```

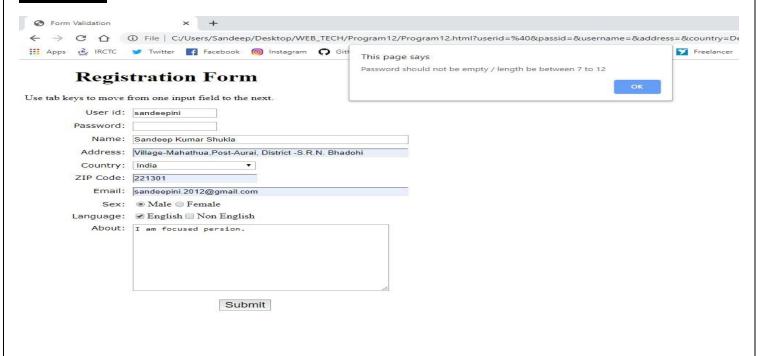
```
<option value="DZ">India</option>
<option value="AS">Russia
<option value="AD">USA</option>
</select>
<label for="zip">ZIP Code:</label>
<input type="text" name="zip" />
<label for="email">Email:</label>
<input type="text" name="email" size="50" />
<label id="gender">Sex:</label>
<input type="radio" name="msex" value="Male" /><span>Male</span>
<input type="radio" name="fsex" value="Female" /><span>Female/span>
<label>Language:</label>
<input type="checkbox" name="en" value="en" checked /><span>English</span>
<input type="checkbox" name="nonen" value="noen" /><span>Non English</span>
<label for="desc">About:</label>
<textarea name="desc" id="desc"></textarea>
<input type="submit" name="submit" value="Submit" />
</form>
</body>
</html>
                                    CSS Code(styles.css)
h1 {
margin-left: 70px;
}
form li {
list-style: none;
margin-bottom: 5px;
}
```

```
form ul li label{
float: left;
clear: left;
width: 100px;
text-align: right;
margin-right: 10px;
font-family: Verdana, Arial, Helvetica, sans-serif;
font-size:14px;
}
form ul li input, select, span {
float: left;
margin-bottom: 10px;
}
form textarea {
float: left;
width: 350px;
height: 150px;
}
[type="submit"] {
clear: left;
margin: 20px 0 0 230px;
font-size:18px
}
p {
margin-left: 70px;
font-weight: bold;
}
```

#### JavaScript Code (sample.js)

```
function formValidation() {
 var uid = document.registration.userid;
 var passid = document.registration.passid;
 var uname = document.registration.username;
 var uadd = document.registration.address;
 var ucountry = document.registration.country;
 var uzip = document.registration.zip;
 var uemail = document.registration.email;
 var umsex = document.registration.msex;
 var ufsex = document.registration.fsex;
 if (userid_validation(uid, 5, 12)) {
  if (passid_validation(passid, 7, 12)) {
   if (allLetter(uname)) {
    if (alphanumeric(uadd)) {
     if (countryselect(ucountry)) {
      if (allnumeric(uzip)) {
        if (ValidateEmail(uemail)) {
         if (validsex(umsex, ufsex)) {}
 return false;
//For userid Validation
function userid_validation(uid, mx, my) {
```

```
var uid_len = uid.value.length;
 if (uid len == 0 \mid \mid uid len >= my \mid \mid uid len < mx) {
  alert("User Id should not be empty / length be between " + mx + " to " + my);
  uid.focus();
  return false;
 return true;
//Password Checking
function passid validation(passid, mx, my) {
 var passid len = passid.value.length;
 if (passid_len == 0 || passid_len >= my || passid_len < mx) {
  alert("Password should not be empty / length be between " + mx + " to " + my);
  passid.focus();
  return false;
 return true;
```

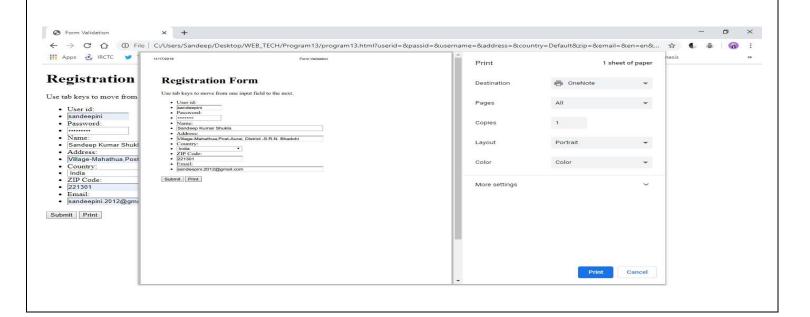


**Aim**: Write a HTML program to design an entry form of student details and print the values filled in the form using JavaScript.

# Code:-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>Form Validation</title>
<script type="text/javascript">
 function print form() {
  window.print();
</script>
</head>
<body onload="document.registration.userid.focus();">
<h1>Registration Form</h1>
Use tab keys to move from one input field to the next.
<form name='registration' onSubmit="return formValidation();">
 <label for="userid">User id:</label>
   <input type="text" name="userid" size="12" />
   <label for="passid">Password:</label>
  <input type="password" name="passid" size="12" />
   <label for="username">Name:</label>
  <input type="text" name="username" size="50" />
   <label for="address">Address:</label>
   <input type="text" name="address" size="50" />
```

```
<label for="country">Country:</label>
  <select name="country">
    <option selected="" value="Default">(Please select a country)
    <option value="AF">Australia</option>
    <option value="AL">Canada</option>
    <option value="DZ">India</option>
    <option value="AS">Russia
    <option value="AD">USA</option>
   </select>
  <label for="zip">ZIP Code:</label>
  <input type="text" name="zip" />
  <label for="email">Email:</label>
  <input type="text" name="email" size="50" />
 <input type="submit" name="submit" value="Submit" />
 <input type="button" name="button" value="Print" onclick="print_form()" />
</form>
</body>
</html>
```



# **Aim**: Write HTML to validate an E-mail Id.

# Code:-

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
 <meta charset="utf-8">
 <title>E-mail Validation</title>
</head>
<body>
 <script type="text/javascript">
  function checkEmail() {
   var email = document.getElementById('txtEmail');
    var filter = /^([a-zA-Z0-9_\.\-])+\\ (([a-zA-Z0-9\-])+\.)+([a-zA-Z0-9]\{2,4\})+\\ /; 
   if (!filter.test(email.value)) {
    alert('Please provide a valid email address');
    email.focus;
    return false;
   }
  }
 </script>
 <h3>Validate your E-mail Id :</h3>
 <input type='text' id='txtEmail' />
 <input type='submit' name='submit' value="Check " onclick='Javascript:checkEmail();' />
</body>
</html>
```

# Output :-S E-mail Validation C ↑ File | C:/Users/Sandeep/Desktop/WEB\_TECH/Program14/program14.html **Y** Freelancer 🟥 Apps 🔌 IRCTC 🔰 Twitter 🚦 Facebook 🎯 Instagram ᠺ Gith This page says Please provide a valid email address Validate your E-mail Id: sandeepini.2012gmail.com Check

# Aim:- Write a program to print "Hello World" in java Code:import java.util.\*; class HelloWorld{ public static void main(String[] args){ System.out.println("Hello World!"); }

```
Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Sandeep>d:

D:\>cd JavaProgram

D:\JavaProgram>javac HelloWorld.java

D:\JavaProgram>java HelloWorld

Hello World!

D:\JavaProgram>
D:\JavaProgram>
```

**<u>Aim</u>**: - Write a program to implements basic datatypes and control structure.

# Code:-

D:\JavaProgram>\_

```
import java.util.*;
class Factorial{
      public static void main(String[] args){
            int N,fact=1;
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter a number :");
        N = sc.nextInt();
            for(int i=1;i<=N;i++){
                   fact = fact*i;
            }
            System.out.println("Factorial of a number :" + fact);
      }
}
Output :-
Command Prompt
D:\JavaProgram>javac Factorial.java
D:\JavaProgram>java Factorial
Enter a number :
Factorial of a number :120
```

# **Aim**: Write a program to print a pattern in java.

# <u>Code</u> :-

# Output :-

Command Prompt

D:\JavaProgram>javac Pattern.java

```
D:\JavaProgram>java Pattern
The Given Pattern are
1
```

D:\JavaProgram>

# **Aim**: Write a program to print sum of series 1+x+x2+x3+...+xn in java.

# Code:-

```
// Print sum of series 1+x+x2+x3+.....+xn
import java.io.*;
import java.lang.Math;
import java.util.*;
class sumSeries
   public static void main(String ar[])
      double i,x=0,n=0,sum=0;
      DataInputStream obj= new DataInputStream(System.in);
      try
          System.out.println("Enter the value of x:");
          x=Integer.parseInt(obj.readLine());
          System.out.println("Enter the value of n:");
          n=Integer.parseInt(obj.readLine());
      catch(IOException e) { }
      for(i=0;i<=n;i++)
      sum=sum+Math.pow(x,i);
      System.out.println("Sum is:"+sum);
   }
```

```
D:\JavaProgram>javac sumSeries.java
Note: sumSeries.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

D:\JavaProgram>java sumSeries
Enter the value of x:
3
Enter the value of n:
1
Sum is:4.0

D:\JavaProgram>java sumSeries
Enter the value of x:
2
Enter the value of x:
3
Enter the value of n:
4
Sum is:31.0

D:\JavaProgram>_
```

#### **Aim**: Write a program to search an Element in array in java.

```
import java.util.*;
public class searchElement {
  public static int Index(int arr[], int t)
  {
    if (arr == null) {
       return -1;
    }
    int len = arr.length;
    int i = 0;
    while (i < len) {
       if (arr[i] == t) {
         return i;
       }
       else {
         i = i + 1;
    }
    return -1;
  public static void main(String[] args)
    int[] array = { 5, 4, 6, 1, 3, 2, 7, 8, 9 };
    // find the index of 6
    System.out.println("Index position of 5 is: " + Index(array, 6));
    // find the index of 7
    System.out.println("Index position of 7 is: " + Index(array, 7));
  }
}
```

# Output :-

Command Prompt

D:\JavaProgram>javac searchElement.java

D:\JavaProgram>java searchElement

Index position of 5 is: 2
Index position of 7 is: 6

D:\JavaProgram>\_

#### **Aim**: To construct a program using 2D array in java.

```
import java.util.*;
class Array{
        public static void main(String[] args){
                Scanner sc = new Scanner(System.in);
               System.out.print("Enter the number of rows : ");
                int r = sc.nextInt();
                System.out.print("Enter the number of column : ");
                int c = sc.nextInt();
                int[][] a = new int[r][c];
               for(int i=0;i<r;i++)
                       for(int j=0;j<c;j++){
                               int N = sc.nextInt();
                               a[i][j] = N;
                       }
               System.out.println("You entered this Array : ");
               for(int i=0;i<r;i++){
                       for(int j=0;j<c;j++){
                               System.out.print(a[i][j] + "\t");
                       System.out.println();
                }
        }
}
```

# Output :-

```
Command Prompt
D:\JavaProgram>javac Array.java
D:\JavaProgram>java Array
Enter the number of rows : 3
Enter the number of column : 3
1
2
3
4
5
6
6
8
9
You entered this Array :
1
4
6
D:\JavaProgram>_
```

<u>Aim</u>: To construct a program having classes and methods with object calling in java.

## Code:-

```
import java.util.*;

public class SimpleCalculation
{
    public int sum(int num1,int num2){
        return (num1+num2);
    }

    public double sum(double num1,double num2){
        return (num1+num2);
    }

    public static void main(String[] args)
    {
        SimpleCalculation obj1 = new SimpleCalculation();
        int s1 = obj1.sum(12,12);
        double s2 = obj1.sum(10.0,12.5);
        System.out.println(s1);
        System.out.println(s2);
    }
}
```

#### Output :-

Command Prompt

D:\JavaProgram>javac SimpleCalculation.java

D:\JavaProgram>java SimpleCalculation
24
22.5

D:\JavaProgram>

#### Aim: Write a program to implement polymorphism, using methods in java

```
class Bank{
 float getRateOfInterest(){return 0;}
}
class SBI extends Bank{
 float getRateOfInterest(){return 8.4f;}
}
class ICICI extends Bank{
 float getRateOfInterest(){return 7.3f;}
}
class AXIS extends Bank{
 float getRateOfInterest(){return 9.7f;}
}
class TestPolymorphism{
 public static void main(String args[]){
   Bank b;
   b=new SBI();
   System.out.println("SBI Rate of Interest: "+b.getRateOfInterest());
   b=new ICICI();
   System.out.println("ICICI Rate of Interest: "+b.getRateOfInterest());
   b=new AXIS();
   System.out.println("AXIS Rate of Interest: "+b.getRateOfInterest());
 }
}
```

# Output :-

```
C:\Windows\System32\cmd.exe
```

```
Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\hp\Desktop\SORTING\javap>javac TestPolymorphism.java

C:\Users\hp\Desktop\SORTING\javap>java TestPolymorphism

SBI Rate of Interest: 8.4

ICICI Rate of Interest: 7.3

AXIS Rate of Interest: 9.7

C:\Users\hp\Desktop\SORTING\javap>_
```

#### **<u>Aim</u>** :- Write a program using Multilevel Inheritance in java.

# Code :-

```
class Shape {
 public void display() {
   System.out.println("Inside display");
 }
}
class Rectangle extends Shape {
 public void area() {
   System.out.println("Inside area");
 }
}
class Cube extends Rectangle {
 public void volume() {
   System.out.println("Inside volume");
 }
}
public class Tester {
 public static void main(String[] arguments) {
   Cube cube = new Cube();
   cube.display();
   cube.area();
   cube.volume();
 }
}
```

#### **Output**:-

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\hp\Desktop\SORTING\javap>javac Tester.java

C:\Users\hp\Desktop\SORTING\javap>java Tester
Inside display
Inside area
Inside volume

C:\Users\hp\Desktop\SORTING\javap>
```

**Aim :-** Write a program to implement packages in java.

#### Code:-

```
import java.util.ArrayList;
class ArrayListUtilization {
  public static void main(String[] args) {
    ArrayList<Integer> myList = new ArrayList<>(3);
    myList.add(3);
    myList.add(2);
    myList.add(1);
    System.out.println(myList);
  }
}
```

#### Output :-

```
C:\Windows\System32\cmd.exe
```

```
Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\hp\Desktop\SORTING\javap>javac ArrayListUtilization.java
C:\Users\hp\Desktop\SORTING\javap>java ArrayListUtilization
[3, 2, 1]
C:\Users\hp\Desktop\SORTING\javap>_
```

## **<u>Aim</u>** :- Write a program implementing interface.

# Code :-

```
import java.io.*;
interface in1
{
   final int a = 10;
   void display();
}
class Disp implements in1
{
    public void display()
    System.out.println("Geek");
  }
   public static void main (String[] args)
    testClass t = new testClass();
    t.display();
    System.out.println(a);
  }
}
```

#### **Output**:-

```
C:\Windows\System32\cmd.exe
```

Microsoft Windows [Version 10.0.18362.418] (c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\hp\Desktop\SORTING\javap>javac Disp.java

C:\Users\hp\Desktop\SORTING\javap>java Disp Geek 10

C:\Users\hp\Desktop\SORTING\javap>\_

<u>**Aim**</u>: - Write a program implementing Multithreading and concept of Exception Handling.

```
class Count implements Runnable
{
 Thread mythread;
 Count()
 {
   mythread = new Thread(this, "my runnable thread");
   System.out.println("my thread created" + mythread);
   mythread.start();
 }
 public void run()
   try
    for (int i=0;i<10;i++)
     System.out.println("Printing the count " + i);
     Thread.sleep(1000);
  catch(InterruptedException e)
  {
    System.out.println("my thread interrupted");
  }
  System.out.println("mythread run is over");
```

```
}
}
class RunnableExample
{
  public static void main(String args[])
    Count cnt = new Count();
    try
    {
     while(cnt.mythread.isAlive())
     {
      System.out.println("Main thread will be alive till the child thread is live");
      Thread.sleep(1500);
     }
    catch(InterruptedException e)
    {
     System.out.println("Main thread interrupted");
    System.out.println("Main thread run is over");
  }
}
```

#### Output:-

```
C:\Windows\System32\cmd.exe
                                                                                                               Microsoft Windows [Version 10.0.18362.418]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\hp\Desktop\SORTING\javap>javac RunnableExample.java
C:\Users\hp\Desktop\SORTING\javap>java RunnableExample
my thread createdThread[my runnable thread,5,main]
Main thread will be alive till the child thread is live
Printing the count 0
Printing the count 1
Main thread will be alive till the child thread is live
Printing the count 2
Main thread will be alive till the child thread is live
Printing the count 3
Printing the count 4
Main thread will be alive till the child thread is live
Printing the count 5
Main thread will be alive till the child thread is live
Printing the count 6
Printing the count 7
Main thread will be alive till the child thread is live
Printing the count 8
Main thread will be alive till the child thread is live
Printing the count 9
mythread run is over
Main thread run is over
C:\Users\hp\Desktop\SORTING\javap>
```