JAVA

1 Distance between two points

```java
import java.util.Scanner;
class CalculateDistance {
public static void main(String args[]) {
long x1,x2,y1,y2;
double dis;
Scanner sc=new Scanner(System.in);
System.out.println("Enter the value of
x1:");
x1=sc.nextInt();
System.out.println("Enter the value of
y1:");
y1=sc.nextInt();
System.out.println("Enter the value of
x2:");
x2=sc.nextInt();
System.out.println("Enter the value of
y2:");
y2=sc.nextInt();
dis=Math.sqrt((x2-x1)*(x2-x1)+(y2y1)*(y2-
y1));
System.out.println("Distancebetween"+"(
"+x1+","+y1+"),"+"(("+x2+","+y2+")===>"+
dis); }}
```

2 Sum diff quotient rem diff

```java
import java.util.Scanner;
public class Arithmetic {
public static void main(String args[]) {
int first,second,add,substract,multiply,
reminder;
float devide;
first=Integer.parseInt(args[0]);
second=Integer.parseInt(args[1]);
add=first + second;
substract=first-second;
multiply=first*second;
devide=(float)first/second;
reminder=first%second;
System.out.println("sum= "+add);
System.out.println("difference="+substract);
System.out.println("multiplication="+multi
ply);
System.out.println("reminder="+reminder);
System.out.println("Division="+devide); }}
```

3 Fibonacci series upto limit

```java
import java.util.Scanner;
public class Fibonacci {
public static void main(String args[]) {
int n,a=0,b=0,c=1;
Scanner s=new Scanner(System.in);
System.out.print("Enter value of n:");
n=s.nextInt();
System.out.print("Fibonacci series");
for(int i=0;i<=n;i++)
{
a=b;
b=c;
c=a+b;
System.out.print(" "+a);
}}}
```

4 Amstrong number wth range

```java
import java.util.Scanner;
public class Armstrong {
public static void main(String args[]) {
int num1,num2;
Scanner sc=new Scanner(System.in);
System.out.println("enter the first
number:");
num1=sc.nextInt();
System.out.println("enter the second
number:");
num2=sc.nextInt();
for(int i=num1;i<num2;i++) {
int check,rem,sum=0;
check=i;
while(check !=0) {
rem=check%10;
sum=sum+(rem*rem*rem);
check=check/10;
}
if(sum==i) {
System.out.println(""+i+" is a armstrong
number");
}}}}
```

5. Triangle isocelus equilateral

```java
import java.io.*;
import java.util.*;
class triangle {
public static void main(String
args[])throws IOException  {
double a,b,c,s;
System.out.println("Enter the 3 values to
be checked:");
DataInputStream si=new
DataInputStream(System.in);
a=Integer.parseInt(si.readLine());
b=Integer.parseInt(si.readLine());
c=Integer.parseInt(si.readLine());
if((a+b)>c&&(a+c)>b&&(b+c)>a)  {
System.out.println("The sides form a
triangle");
if((a==b)&&(b==c)) {
System.out.println("This is equilateral"); }
else if(a==b||a==c||b==c)
System.out.println("This is isosceles");
else
System.out.println("It is scalene");
s=(a+b+c)/2;
System.out.println("s="+s);
double area=Math.sqrt(s*(s-a)*(s-b)*(s-
c));
System.out.println("Area="+area); }
else
System.out.println("The given sides can't
form a triangle"); } }
```

6 Array smallest largest

```java
import java.io.*;
class arrays {
public static void main(String args[])throws
IOException {
int a[]=new int[10];
DataInputStream s=new
DataInputStream(System.in);
System.out.println("Enter 10 elements:");
for(int i=0;i<10;i++)
a[i]=Integer.parseInt(s.readLine());
int max=a[0];
int min=a[0];
int smax=a[0];
for(int i=0;i<10;i++) {
if(a[i]>max)
max=a[i];
if(a[i]<min)
min=a[i];
for(int i=0;i<10;i++) {
if((a[i]>smax)&&a[i]!=max)
smax=a[i]; }
System.out.println("smallest="+min);
System.out.println("largest="+max);
System.out.println("second
largest="+smax); }}
```

7 base conversion intgr-binry

```java
import java.io.*;
import java.util.*;
public class base {
public static void main(String args[])throws
IOException {
DataInputStream s=new
DataInputStream(System.in);
String ans;
System.out.println("Enter the decimal
value needed to convert:");
int dec=Integer.parseInt(s.readLine());
System.out.println("select base\n binary-
b;\n octal-o;\n hexadecimal-h;");
char choice=(char)System.in.read();
switch(choice) {
case 'b':
ans=Integer.toString(dec,2);
System.out.println("Binary value
of"+dec+"="+ans);
break;
case 'o':
ans=Integer.toString(dec,8);
System.out.println("octal value
of"+dec+"="+ans);
break;
case 'h':
ans=Integer.toString(dec,16);
System.out.println("hexadecimal value
of"+dec+"="+ans);
break;
default:
System.out.println("Wrong option!");
break; }}}
```

8 Merge two Array

```java
import java.io.*;
import java.util.*;
public class append {
public static void main(String
args[])throws IOException {
int i,j,m,n,total;
int a[]=new int[10];
int b[]=new int[10];
int c[]=new int[30];
DataInputStream s=new
DataInputStream(System.in);
System.out.println("Enter the size of array
A:");
n=Integer.parseInt(s.readLine());
System.out.println("Enter the elements of
array A:");
for(i=0;i<n;i++) {
a[i]=Integer.parseInt(s.readLine()); }
System.out.println("Enter the size of array
B:");
m=Integer.parseInt(s.readLine());
System.out.println("Enter the elements of
array B:");
for(i=0;i<m;i++) {
b[i]=Integer.parseInt(s.readLine()); }
total=m+n;
for(i=0;i<n;i++) {
 c[i]=a[i]; }
for(j=0;j<m;j++,n++) {
c[n]=b[j]; }
System.out.println("Append array C:");
for(i=0;i<total;i++) {
System.out.println(c[i]); }}}
```

9 HCF LCM of two numbers

```java
import java.util.Scanner;
public class hcflcm {
public static void main(String args[]) {
int a,b,x,y,t,hcf,lcm;
Scanner scan=new Scanner(System.in);
System.out.print("Enter 2 numbers:");
x=scan.nextInt();
y=scan.nextInt();
a=x;
b=y;
while(b!=0) {
t=b;
b=a%b;
a=t; }
hcf=a;
lcm=(x*y)/hcf;
System.out.print("HCF="+hcf);
System.out.print("\nLCM="+lcm); }}
```

10 Convert CM to inch,mtr,km

```java
import java.util.Scanner;
class Test {
public static void main(String args[]) {
 double cm, meter, km,inch;
    Scanner op=new Scanner(System.in);
System.out.print("Enter length in
centimeter: ");
    cm=op.nextDouble();
    meter = cm / 100.0;
    km   = cm / 100000.0;
    inch  = cm / 2.54;
System.out.println("Length in Meter = "+
meter+" m ");
System.out.println("Length in Kilometer
="+km+" km");
System.out.println("Length in inch
="+inch+" inch); }}
```

11 Trace Transpose of Matrix

```java
import java.util.*;
import java.io.*;
public class matrix {
public static void main(String
args[])throws IOException {
 DataInputStream in=new
DataInputStream(System.in);
 int a[][]=new int[10][10];
 int sum=0;
 int i,j;
 int row,column,temp;
 System.out.println("Enter the no:f
rows:");
 row=Integer.parseInt(in.readLine());
 System.out.println("Enter the no:of
column:");
 column=Integer.parseInt(in.readLine());
System.out.println("Enter the elements for the
matrix:");
 for(i=0;i<row;i++)
 for(j=0;j<column;j++)
 a[i][j]=Integer.parseInt(in.readLine());
 System.out.println("The matrix is:");
 for(i=0;i<row;i++)  {
 for(j=0;j<column;j++)
 System.out.print(a[i][j]+"\t");
 System.out.println(); }
 System.out.println("The transpose of the
matrix is:");
 temp=row;
 row=column;
 column=temp;
 for(i=0;i<row;i++)
 for(j=0;j<column;j++)
 System.out.print(a[j][i]+"\t");
 System.out.println(); }
if(row!=column)
System.out.println("it is not a square
matrix!!There is no trace for the matrix!!!");
 else {
 for(i=0;i<row;i++)
 for(j=0;j<column;j++)
 if(i==j)
 sum=sum+a[i][j];
 System.out.println("The sum of the trace
is:"+sum); }}}
```

12 Sum of digit and reverse num

```java
import java.util.*;
import java.io.*;
public class rev {
public static void main(String args[])throws
IOException {
DataInputStream s=new
DataInputStream(System.in);
int n;
System.out.println("Enter the number:");
n=Integer.parseInt(s.readLine());
sum a=new sum();
a.getresult(n); }}
class sum {
int d,num=0,sum=0,r=0;
void getresult(int num) {
while(num>0) {
d=num%10;
 sum=sum+d;
 r=(r*10)+d;
 num=num/10; }
System.out.println("sum="+sum);
System.out.println("reverse="+r); } }
```

13 Anagram or not

```java
import java.util.Scanner;
public class anag {
public static void main(String[] input) {
String str1,str2;
int len,len1,len2,i,j,found=0,not_found=0;
Scanner scan=new Scanner(System.in);
System.out.println("Enter first string:");
str1=scan.nextLine();
System.out.println("Enter second string:");
str2=scan.nextLine();
len1=str1.length();
len2=str2.length();
if(len1==len2) {
len=len1;
for(i=0;i<len;i++) {
found=0;
for(j=0;j<len;j++) {
if(str1.charAt(i)==str2.charAt(j)) {
found=1;
break; }}
if(found==0) {
not_found=1;
break; }}
if(not_found==1) {
System.out.println("Strings are not anagram to
eachother....!!"); }
Else {
System.out.println("Strings are anagram"); }}
}}
```

14 Remove vowel String

```java
import java.util.Scanner;
public class vowel {
public static void main(String args[]) {
String str1,str2;
Scanner scan=new Scanner(System.in);
System.out.println("Enter a string:");
str1=scan.nextLine();
System.out.println("Removing vowels from
the string["+str1+"]");
str2=str1.replaceAll("[aeiouAEIOU]"," ");
System.out.println("All vowels removed...");
System.out.println(str2); }}
```

15 Sum of 2 complex number

```java
import java.util.*;
import java.io.*;
class Complex1{
int real,image;
Complex1(int r,int i){
real=r;
image=i; }
Complex1() {}
Complex1 addComplex(Complex1
c1,Complex1
c2) {
Complex1 s=new Complex1();
s.real=c1.real+c2.real;
s.image=c1.image+c2.image;
return(s); } }
public class Comp{
public static void main(String args[])throws
IOException{
int r1,r2,m1,m2;
DataInputStream j=new
DataInputStream(System.in);
System.out.println("Enter the real and
imaginary part of first complex no.:");
r1=Integer.parseInt(j.readLine());
m1=Integer.parseInt(j.readLine());
System.out.println("Enter the real and
imaginary part of second complex no.:");
r2=Integer.parseInt(j.readLine());
m2=Integer.parseInt(j.readLine());
Complex1 c1=new Complex1(r1,m1);
Complex1 c2=new Complex1(r2,m2);
Complex1 c3=new Complex1();
c3=c3.addComplex(c1,c2);
System.out.println("Sum ="+c3.real+"+"
+c3.image+" i"); } }
```

16 Count display object class

```java
 import java.io.*;
 import java.util.*;
 class Test {
 static int num=0;
 public Test() {
 num+=1; }
 public static void main(String args[]) {
 Test t1=new Test();
 Test t2=new Test();
 Test t3=new Test();
 System.out.println("Total no:of
 objects="+Test.num); } }
```

17 Applet of Smile face

smilface.html
```html
<html>
<body>
<applet code="smileface.class"
height="300" width="320">
</applet>
</body>
</html>
```
smileface.java
```java
import java.applet.*;
import java.awt.*;
public class smileface extends Applet {
public void paint(Graphics g) {
g.setColor(Color.black);
g.drawOval(20,40,250,250);
g.fillOval(50,100,50,70);
g.fillOval(185,100,50,70);
g.drawLine(138,160,138,210);
g.drawLine(138,210,155,210);
g.drawArc(95,156,100,100,180,180); } }
```

JAVASCRIPT

1 Area Circumference Circle

```html
<html> <head> <title>area and
circumference of a circle </title> </head>
<body> <script language="javascript">
function calculateArea() {
var
radius=document.form1.txtradius.value;
var area=(radius*radius*Math.PI);
var circum=(2*radius*Math.PI)
document.write("<p> the area of the
circles"+area+"</p>");
document.write("<p> the circumference of
the circle is"+circum+"</p>"); }
</script> <form name=form1>
enter the radius of a circle:
<input type="text" name="txtradius"
size=10><br>
<input type="button" value="calculate"
onClick='calculateArea()'></form>
</body> </html>
```

2 Number perfect,abundent

```html
<html> <h2>perfect
abundantdeficient<h2><br> <body>
<form name=form1>
<input type="text" name="value1"
size=10/>
<input type="button" value="calculate"
onclick='check()';> </form>
<script language="javascript">
function check() {
var num=document.form1.value1.value;
var i,sum=0;
for(i=0;i<num;i++) {
if(num%i==0)
sum=sum+i; }
if(sum==num)
alert("perfect number");
else if(sum>num)
alert("abundant number");
else
alert("deficient number"); }
</script></body></html>
```

3 Multiplication Table

```html
<html> <body> <form name=form1>
enter the number:<input type="text"
name="value1" size=10><br><br>
enter the limit:<input type="text"
name="value2" size=10><br><br><br>
<input type="button" value="display"
onClick="show()"></form>
<script language="javaScript">
function show() {
var num=document.form1.value1.value;
var lim=document.form1.value2.value;
var i=1;
document.write("multiplication
table:"+num);
while(i<=lim) {
document.write("<br>"+i+"*"+num+"="+(i
*num));
i++; } }
</script> </body> </html>
```

4 Chnge Backgrnd Color Array

```html
<html><body onmouseout="myArray(4)">
<script>
function myArray(n) {
var
backcolor=["#00ff00","#ff0000","#0000ff",
"#cce","#cd12ca"];
document.bgColor=backcolor[n]; }
</script> <center>
<a href="#"
onmouseenter="myArray(0)">green</a>
<a href="#"
onmouseenter="myArray(1)">Red</a>
<a href="#"
onmouseenter="myArray(2)">blue</a>
<a href="#"
onmouseenter="myArray(3)">ash</a>
<h1>changing background color</h1>
</center></body></html>
```

5 Paliandrome or Not

```html
<html> <h2>enter the string</h2><br>
<body><form name=form1>
<input type="text" name="value1"
size=10/>
<input type="button" value="check"
onClick="palindrome();"></form>
<script language="javaScript">
function palindrome() {
var x=document.form1.value1.value;
var y="";
for(var i=x.length-1;i>=0;i--) {
y=y+x[i]; }
if(x==y)
document.write(x+" is a palindrome
string");
else
document.write(x+" is not a palindrome
string"); }
</script> </body> </html>
```

6 Prompt box Display AlertBox

```html
<html><head>
<title>create an array read values using
prompt</title> </head>
<body> <script>
var arr=[];
var n=prompt('enter the number of
elements:');
for(var i=0;i<n;i++) {
arr.push(prompt('enter the array
element'+(i+1))); }
var s=0;
```

```javascript
for(i=0;i<n;i++) {
s=s+parseInt(arr[i]); }
alert('full array:'+arr.join(','));
alert('sum of array:'+s);
</script> </body> </html>
```

7 Chnge Text color of text Box

```html
<html><head><title>onBluronFocus</title>
</head><body><h2>change the text color
 and back color</h2>
 <form name=form1>
<input   type="text"id="txt"onFocus=
"txt_color()" onBlur="txt_back_color()">
 <br><br>
<input type="button" value="show">
 </form>
<script language="Javascript">
 function txt_color() {
  document.getElementById("txt")
 .style.color="#FF0000";
  document.getElementById("txt")
  style.background="#0000FF";
 }
function txt_back_color() {
  document.getElementById("txt").style.col
  or="#00FF00";
  document.getElementById("txt").style.bac
  kground="#FF0000";
 } </script> </body> </html>
```

8 Capital country Change event

```html
<html><body><p>select a state from the
list</p><select id="mySelect"
onchange="display()"> <option
value="trivandrum">kerala</option>
<option value="chennai"> tamil
nadu</option> <option
value="bengaluru">karnadaka</option>
<option value="panaji">goa</option>
<option value="patna">bihar</option>
<optionvalue="chandigarh">haryana</opt
ion> <option value="bhopal">madhya
pradesh</option><option
value="imphal">manipur</option><optio
n value="shillong">megalaya</option>
</select><br><br>
<input type="text" id="txt">
<script> function display()
{
var
x=document.getElementById("mySelect").
value;
document.getElementById("txt").value=x
}
</script> </body> </html>
```

9 password Validation

```html
<html><body><title>verification of valid
password</title> </head> <script>
function verifypassword()
{
var
pw=document.getElementById("pswd").v
alue;
var
pw2=document.getElementById("pswd2")
.value;
if(pw!=pw2&&pw!="") {
document.getElementById("message").in
nerHTML="PASSWORD AND CONFIRM
PASSWORD ARE NOT SAME";
return false; }
else if(pw.lemgth<8){
document.getElementById("message").in
nerHTML="PASSWORD LENGTH MUST BE
8 CHARACTERS";
return false; }
else {
alert("password is correct"); } }
</script> </body> <center>
<h1 style="color:green">password
validation</h1>
<form onsubmit="return
verifypassword()">
```

PHP

1 Amstrong or Not AlertBox

```html
<html> <head>
<title>armstrong number</title>
</head> <body>
<form action=""  method="POST">
<h2>Find Armstrong Number</h2>
<input type="text" name="number">
<input type="submit" name="submit"
 value="submit">
</form> </body> </html>
```

```php
<?php
if($_POST) {
$number=$_POST['number'];
$temp=$number;
$num=0;  }
while($temp!=0)  {
$rem=$temp%10;
$num=$num+($rem*$rem*$rem);
$temp=$temp/10;  }
if(isset($number)){
if($number==$num) {
echo"It is an armstrong number"; }
else {
echo"it is not an armstrong number"; } }
?>
```

2 Perfect abundant Deficient

```html
<html> <head> <title>Number</title>
</head> <body>
<form action="" method="post">
Enter the number:<input type="number"
name="num"><br>
<input type="submit" value="submit"
value="submit">
</form> </body> </html>
```

```php
<?php
$num=$_POST["num"];
$sum=0;
if(is_numeric($num)){
for($i=1;$i<$num;$i++){
$temp=$i;
if($num%$temp==0)
$sum=$sum+$i;  }
if($sum==$num)
echo "<b>".$num." is a perfect
number."</b>";
else if($sum<$num)
echo "<b>".$num." is a deficient
number."</b>";
else
 echo "<b>".$num." is an abundant
number."</b>";  }
?>
```

3 Fibonacci series

```html
<html> <head> <body>
<form action="fibonacci.php" method="post">
<input type="text" name="number"/>
<input type="submit" value="find"/>
</form></head></body></html>
```

```php
<?php
$num=$_POST["number"];
$c=0;
$f1=0;
$f2=1;
if(isset($num)){
if($num==0)
echo "enter a valid number!";
else if($num==1)
echo $num;
else {
echo $f1.",".$f2;
while($c<$num-2) {
$f3=$f2+$f1;
echo $f3.",";
$f1=$f2;
$f2=$f3;
$c=$c+1;  } } }
?>
```

4 Bio data

```html
<html> <body>
<form action="" method="post">
<h2>Biodata</h2>
Name:
<input type="text" name="name">
<br><br>
Age:
<input type="text" name="age">
<br><br>
Gender:
<input type="radio" name="gender"
value="male">Male
<input type="radio" name="gender"
value="female">Female<br><br>
Address:
<textarea
name="address"></textarea><br><br>
Qualification:
<select name="qual">
<option>degree
<option selected>pg
<option>+2
</select><br><br>
<input type="submit" value="submit">
<input type="reset" value="clear">
</form> </body> </html>
```

```php
<?php
$name=$_POST['name'];
$age=$_POST['age'];
$gender=$_POST['gender'];
$address=$_POST['address'];
$qual=$_POST['qual'];
if($name!=null)
echo "Your name is:".$name."<br>";
if($age!=null)
echo "Your age is:".$age."<br>";
if($gender!=null)
echo "Your gender is:".$gender."<br>";
if($address!=null)
echo "Your address is:".$address."<br>";
if($qual!=null)
echo "Your qualification is:".$qual."<br>";
?>
```

5 List of Fruits

```html
<html> <body>
<form action=" " method="POST">
<select name="f">
<option value="......">(please select)
<option value="grape">grape
<option value="banana">banana
<option value="chickoo">chickoo
<option value="apple">apple
<option value="pine apple">pine apple
</select><br><br><br>
<input type="submit" value="SELECT">
</form> </body> </html>
<?php
if($_POST)
{
echo"<h2>you have indicated that you like</h2>";
echo $_POST["f"];
}
?>
```

6 Current Date Time Cookie

```php
<html>
<h2>Last visited time on web page</h2>
<br>
<?php
$intm=60*60*24*60+time();
setcookie('lastVisit',date("G:i-m/d/y"),$intm);
if(isset($_COOKIE['lastVisit']))
{
$visit=$_COOKIE['lastVisit'];
echo "Your last visit was ".$visit;
}
else
echo "you have got same state cookies!";
?>
</body> </html>
```

7 Array operation

```php
<html> <body>
<h2>Array Operations</h2><br>
<form action=" " method="post">
<?php
echo "<br><input type=radio name=arr value=dis>Display Array";
echo "<br><input type=radio name=arr value=srt>Sorted Array";
echo "<br><input type=radio name=arr value=usrt>Without duplicate";
echo "<br><input type=radio name=arr value=pop>Delete last";
echo "<br><input type=radio name=arr value=rev>Array reversal";
echo "<br><input type=radio name=arr value=sear>Array search";
echo "<br><input type=submit>";
$name=array("Raju","Varun","Vani","Basheer","Kumar","John","Shani","Manu","Kiran","Sukumar");
if($_POST)
{
$val=$_POST['arr'];
switch($val)  {
 case "dis":
 foreach($name as $value)
 echo "<br>".$value;
 break;
 case "srt":
 sort($name);
 foreach($name as $value)
 echo "<br>".$value;
 break;
 case "usrt":
 $uarray=array_unique($name);
 foreach($uarray as $value)
 echo "<br>".$value;
 break;
 case "pop":
 array_pop($name);
 foreach($name as $value)
 echo "<br>".$value;
 break;
 case "rev":
 $revarr=array_reverse($name);
 foreach($revarr as $value)
 echo "<br>".$value;
 break;
 case "sear":
 echo "<br>".array_search("John",$name,true);
 break;  } }
?>
</body> </html>
```

8 Reverse of String

```php
<html. <body>
<h2>enter a string</h2><br>
<form action="" method="POST">
<input ttype="text" name="str1"/>
<input type="submit"/>
</form>
</body>
</html>
<?php
if($_POST)
{
function rev_str($str)
{
$length=strlen($str);
for($i=($length-1);$i>=0;$i--)
{
echo$str[$i];
}
}
$string=$_POST['str1'];
rev_str($string);
}
?>
```