1)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(" "+j);

}

Console.WriteLine (" ");

}

}

}

2)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(" "+i);

}

Console.WriteLine (" ");

}

}

}

3)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(" \* ");

}

Console.WriteLine (" ");

}

}

}

4)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(" @ ");

}

Console.WriteLine (" ");

}

}

}

5)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,k=1;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(" "+k++);

}

Console.WriteLine (" ");

}

}

}

6)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,k=1;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(k+" ");

k=k+2;

}

Console.WriteLine (" ");

}

}

}

7)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,ch=64;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write((char)(ch+j)+" ");

}

Console.WriteLine (" ");

}

}

}

8)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,ch=64;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write((char)(ch+i)+" ");

}

Console.WriteLine (" ");

}

}

}

9)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,ch=96;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write((char)(ch+j)+" ");

}

Console.WriteLine (" ");

}

}

}

10)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,ch=96;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write((char)(ch+i)+" ");

}

Console.WriteLine (" ");

}

}

}

11)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,ch=65;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write((char)(ch++)+" ");

}

Console.WriteLine (" ");

}

}

}

12)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j,ch=96;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write((char)(ch++)+" ");

}

Console.WriteLine (" ");

}

}

}

13)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, ch = 65;

Console.WriteLine("Enter value:");

n = Convert.ToInt32(Console.ReadLine());

for (int i = 1; i <= n; i++)

{

for (int j = 1; j <= i; j++)

{

Console.Write((char)(ch) + "" + (char)(ch + 32) + " ");

ch++;

if (ch > 90) // Reset to 'A' if it goes beyond 'Z'

{

ch = 65;

}

}

Console.WriteLine();

}

}

}

14)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

Console.WriteLine("Enter value:");

n = Convert.ToInt32(Console.ReadLine());

for (int i = 1; i <= n; i++)

{

int ch = 65 + (i - 1); // Calculate the ASCII value for the capital letter

for (int j = 1; j <= i; j++)

{

Console.Write((char)ch + "" + (char)(ch + 32) + " ");

}

Console.WriteLine();

}

}

}

15)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=n;i>=1;i--){

for(j=1;j<=i;j++){

Console.Write(" "+j);

}

Console.WriteLine (" ");

}

}

}

16)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

Console.WriteLine("Enter number of rows:");

n = Convert.ToInt32(Console.ReadLine());

for (int i = 1; i <= n; i++) // Outer loop for rows

{

for (int j = 1; j <= 5; j++) // Inner loop for columns (always 5 columns)

{

Console.Write(j + " "); // Print numbers from 1 to 5 followed by a space

}

Console.WriteLine(); // Move to the next line after each row

}

}

}

17)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

Console.Write(" "+j);

}

Console.WriteLine (" ");

}

for(i=n-1;i>=1;i--){

for(j=1;j<=i;j++){

Console.Write(" "+j);

}

Console.WriteLine (" ");

}

}

}

18)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

if(j%2==1)

Console.Write(" 1 ");

else{

Console.Write(" 0 ");

}

}

Console.WriteLine (" ");

}

}

}

19)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine ("Enter valu :");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

for(j=1;j<=i;j++){

if(i%2==1)

Console.Write(" 1 ");

else{

Console.Write(" 0 ");

}

}

Console.WriteLine (" ");

}

}

}

20)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,j;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

for ( j = 1; j <= n; j++)

{

if ((i + j) % 2 == 0)

{

Console.Write(" \* ");

}

else

{

Console.Write(" # ");

}

}

Console.WriteLine();

}

}

}

21)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j,k;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

// Print leading spaces

for (k = n; k > i; k--)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

22)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j, k;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = n; i >= 1; i--)

{

// Print leading spaces

for (k = 0; k < n - i; k++)

{

Console.Write(" ");

}

// Print asterisks

for (j = 0; j < (2 \* i) - 1; j++)

{

Console.Write("\*");

}

Console.WriteLine();

}

}

}

23)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j,k;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

// Print leading spaces

for (k = n; k > i; k--)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

for (i = n-1; i >= 1; i--)

{

// Print leading spaces

for (k = n; k >i; k--)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

24)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j,k;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = n; i >= 1; i--)

{

// Print leading spaces

for (k = 0; k < n - i; k++)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

for (i = 2; i <= n; i++)

{

// Print leading spaces

for (k = 0; k < n - i; k++)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

25)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j, k;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

// Print leading spaces

for (k = n; k > i; k--)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

26)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j, k;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = n; i >= 1; i--)

{

// Print leading spaces

for (k = 0; k <n - i; k++)

{

Console.Write(" ");

}

// Print asterisks

for (j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

27)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

for (j = i; j < n; j++)

{

Console.Write(" ");

}

for (j = 1; j <= i; j++)

{

Console.Write("\*");

}

Console.WriteLine();

}

// Print the bottom part of the pattern

for (i = n - 1; i >= 1; i--)

{

for (j = n; j > i; j--)

{

Console.Write(" ");

}

for (j = 1; j <= i; j++)

{

Console.Write("\*");

}

Console.WriteLine();

}

}

}

28)

29)

30)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

for (j = 1; j <= n; j++)

{

Console.Write("\* ");

}

Console.WriteLine ( );

}

}

}

31)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

for (j = 1; j <= n; j++)

{

if(i == j)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine(" ");

}

}

}

32)

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n, i, j;

Console.WriteLine("Enter value of n: ");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++)

{

for (j = 1; j <= n; j++)

{

if(i + j == n + 1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine(" ");

}

}

}

33)

using System;

public class ButterflyPattern

{

public static void Main(string[] args)

{

int n = 5;

// Upper half

for (int i = 1; i <= n; i++)

{

// Left part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

// Space between the two halves

for (int j = 1; j <= 2 \* (n - i); j++)

{

Console.Write(" ");

}

// Right part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

// Lower half

for (int i = n; i >= 1; i--)

{

// Left part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

// Space between the two halves

for (int j = 1; j <= 2 \* (n - i); j++)

{

Console.Write(" ");

}

// Right part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

34)

using System;

public class ButterflyPattern

{

public static void Main(string[] args)

{

int n = 5;

// Upper half

for (int i = 1; i <= n; i++)

{

// Left part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

// Space between the two halves

for (int j = 1; j <= 2 \* (n - i); j++)

{

Console.Write(" ");

}

// Right part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

// Lower half

for (int i = n; i >= 1; i--)

{

// Left part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

// Space between the two halves

for (int j = 1; j <= 2 \* (n - i); j++)

{

Console.Write(" ");

}

// Right part

for (int j = 1; j <= i; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

35)

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\* \* \* \* \*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

for(int i=1; i<=5; i++){

for(int j=1; j<=5; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

}

}

36)

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\* \*

\* \* \*

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\* \* \* \* \*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

for(int i=1; i<=5; i++){

for(int j=1; j<=5; j++)

{

if(i>=j)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

37)

\* \* \* \* \*

\* \* \* \*

\* \* \*

\* \*

\*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

for(int i=1; i<=5; i++){

for(int j=1; j<=5; j++)

{

if(i<=j)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

37)

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

n=Convert.ToInt32(Console.ReadLine());

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j>=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

38)

\* \* \* \* \*

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\*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

n=Convert.ToInt32(Console.ReadLine());

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

39)

\* \* \* \* \* \* \* \* \* \* \* \*

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\* \* \* \* \* \*

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\* \*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

n=Convert.ToInt32(Console.ReadLine());

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

40)

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\* \* \* \* \* \* \* \* \* \*

\* \* \* \* \* \* \* \*

\* \* \* \* \* \*

\* \* \* \*

\* \*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

n=Convert.ToInt32(Console.ReadLine());

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

41)

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\* \* \* \* \* \*

\* \* \* \* \* \* \* \*

\* \* \* \* \* \* \* \* \* \*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n=5;

// n=Convert.ToInt32(Console.ReadLine());

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i<=j)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i>=j)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i+j>=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

42)

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\* \* \* \*

\* \*

\*

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

n=Convert.ToInt32(Console.ReadLine());

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i+j>=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i>=j)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

for(int i=1; i<=n; i++){

for(int j=1; j<=n; j++)

{

if(i<=j)

Console.Write("\* ");

else

Console.Write(" ");

}

for(int j=1; j<=n; j++){

if(i+j<=n+1)

Console.Write("\* ");

else

Console.Write(" ");

}

Console.WriteLine();

}

}

}

55)

using System;

class HelloWorld {

static void Main() {

int i,j,f1,n,sum=0;

Console.WriteLine("Enter n number:");

n=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

f1=1;

for(j=i;j>1;j--){

f1=f1\*j;

}

sum=sum+f1;

Console.Write(i+"!");

}

}

}

56)

using System;

class HelloWorld {

static void Main() {

int i,j,f1,n,sum=0,x;

Console.WriteLine("Enter n and x number:");

n=Convert.ToInt32(Console.ReadLine());

x=Convert.ToInt32(Console.ReadLine());

for(i=1;i<=n;i++){

f1=1;

for(j=1;j<=i;j++){

f1=f1\*x;

}

sum=sum+f1;

Console.Write(" Sum:"+sum);

}

}

}

57)

using System;

class HelloWorld {

static void Main() {

int i, n, x, sum = 0;

Console.WriteLine("Enter n and x numbers:");

n = Convert.ToInt32(Console.ReadLine());

x = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++) {

int power = 1;

for (int j = 1; j <= i; j++) {

power \*= x;

}

sum += power;

Console.Write(x + "^" + i + (i < n ? " + " : ""));

}

Console.WriteLine("\nSum of powers: " + sum);

}

}

58)

using System;

class HelloWorld {

static void Main() {

int i, j, f1, n, x;

double sum = 0, f2;

Console.WriteLine("Enter n and x numbers:");

n = Convert.ToInt32(Console.ReadLine());

x = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++) {

f1 = 1;

f2 = 1;

for (j = 1; j <= i; j++) {

f1 \*= j;

}

for (j = 1; j <= i; j++) {

f2 \*= x;

}

sum += (f2 / f1);

Console.Write(x + "^" + i + "/" + i + "!" + (i < n ? " + " : ""));

}

Console.WriteLine("\nSum of series: " + sum);

}

}

59)

using System;

class HelloWorld {

static void Main() {

int i, j, n;

double x, sum = 1, term;

Console.WriteLine("Enter the value of x (in radians):");

x = Convert.ToDouble(Console.ReadLine());

Console.WriteLine("Enter the number of terms n:");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++) {

int power = 2 \* i;

term = 1;

// Calculate x^power

for (j = 1; j <= power; j++) {

term \*= x;

}

// Calculate factorial (2\*i)!

double factorial = 1;

for (j = 1; j <= power; j++) {

factorial \*= j;

}

// Add or subtract the term from sum

if (i % 2 == 0) {

sum += term / factorial;

} else {

sum -= term / factorial;

}

Console.Write(x + "^" + power + "/" + power + "!" + (i < n ? (i % 2 == 0 ? " + " : " - ") : ""));

}

Console.WriteLine("\nCosine series sum: " + sum);

}

}

60)

using System;

class HelloWorld {

static void Main() {

int i, j, n;

double x, sum = 1, term;

Console.WriteLine("Enter the value of x (in radians):");

x = Convert.ToDouble(Console.ReadLine());

Console.WriteLine("Enter the number of terms n:");

n = Convert.ToInt32(Console.ReadLine());

for (i = 1; i <= n; i++) {

int power = 2 \* i - 1; // Calculate power for odd terms

term = 1;

// Calculate x^power

for (j = 1; j <= power; j++) {

term \*= x;

}

// Calculate factorial (2\*i-1)!

double factorial = 1;

for (j = 1; j <= power; j++) {

factorial \*= j;

}

// Add or subtract the term from sum

if (i % 2 == 0) {

sum += term / factorial;

} else {

sum -= term / factorial;

}

Console.Write(x + "^" + power + "/" + power + "!" + (i < n ? (i % 2 == 0 ? " + " : " - ") : ""));

}

Console.WriteLine("\nCosine series sum: " + sum);

}

}