1. **//Write a program to calculate sum of first N natural numbers**

#include<stdio.h>

int main()

{

int i,n,s;

printf("Enter a number: ");

scanf("%d",&n);

for(i=1,s=0;i<=n;i++)

{

s=s+i;

}

printf("Sum is %d",s);

return 0;

}

1. **//Write a program to calculate sum of first N even natural numbers**

#include<stdio.h>

int main()

{

int n;

printf("Enter a number: ");

scanf("%d",&n);

n=(n\*n+n);

printf("Sum is %d",n);

return 0;

}

**2nd method**

#include<stdio.h>

int main()

{

int i,n,s,j;

printf("Enter a number: ");

scanf("%d",&n);

for(i=1,j=0,s=0;i<=n;i++)

{

j=j+2;

s=s+j;

}

printf("Sum is %d",s);

return 0;

}

1. **//Write a program to calculate sum of first N odd natural numbers**

#include<stdio.h>

int main()

{

int n,s;

printf("Enter a number: ");

scanf("%d",&n);

s=n\*n;

printf("Sum is %d",s);

return 0;

}

**2nd method**

#include<stdio.h>

int main()

{

int i,j,n,s;

printf("Enter a number: ");

scanf("%d",&n);

for(i=1,j=1,s=0;i<=n;i++)

{

s=s+j;

j=j+2;

}

printf("Sum is %d",s);

return 0;

}

1. **//Write a program to calculate sum of squares of first N natural numbers**

#include<stdio.h>

int main()

{

int i,j,n,s;

printf("Enter a number: ");

scanf("%d",&n);

for(i=1,s=0;i<=n;i++)

{

j=i\*i;

s=s+j;

}

printf("Sum is %d",s);

return 0;

}

1. **//Write a program to calculate sum of cubes of first N natural numbers**

#include<stdio.h>

int main()

{

int i,j,n,s;

printf("Enter a number: ");

scanf("%d",&n);

for(i=1,s=0;i<=n;i++)

{

j=i\*i\*i;

s=s+j;

}

printf("Sum is %d",s);

return 0;

}

1. **//Write a program to calculate factorial of a number**

#include<stdio.h>

int main()

{

int i,n,fact;

printf("Enter a number: ");

scanf("%d",&n);

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

{

fact=fact\*i;

}

printf("Factorial is %d",fact);

return 0;

}

1. **//Write a program to count digits in a given number**

#include<stdio.h>

int main()

{

int n,count=0;

printf("Enter a number:");

scanf("%d",&n);

while(n!=0)

{

n=n/10;

count++;

}

printf("Number of digits is %d", count);

return 0;

}

1. **/\*Write a program to check whether a given number is a Prime number or not\*/**

#include<stdio.h>

int main()

{

int i,n,flag=0;

printf("Enter a number:");

scanf("%d",&n);

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

{

if(n % i == 0)

{

flag=1;

break;

}

}

if(flag==1)

printf("Not a Prime");

else

printf("Prime Number");

return 0;

}

1. **//Write a program to calculate LCM of two numbers**

#include<stdio.h>

int main()

{

int a,b,i;

printf("Enter the value of a and b:");

scanf("%d %d",&a,&b);

for(i=1;i<=(a\*b);i++)

{

if(i%a==0 && i%b==0)

{

break;

}

}

printf("LCM is %d",i);

return 0;

}

1. **//Write a program to reverse a given number**

#include<stdio.h>

int main()

{

int n,remainder,reverse=0;

printf("Enter a number:");

scanf("%d",&n);

while(n!=0)

{

remainder=n%10;

n=n/10;

reverse=reverse\*10+remainder;

}

printf("Reverse is %d",reverse);

return 0;

}