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

#include<stdio.h>

int main()

{

int i,n,s=0;

printf("Enter a number: ");

scanf("%d",&n);

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

s=s+i;

printf("\nSum of first %d natural numbers is %d",n,s);

return 0;

}

2. Write a program to calculate sum of first N even natural numbers

#include<stdio.h>

int main()

{

int i,n,s=0;

printf("Enter a number: ");

scanf("%d",&n);

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

s=s+2\*i;

printf("\nSum of first %d even natural numbers is %d",n,s);

return 0;

}

3. Write a program to calculate sum of first N odd natural numbers

#include<stdio.h>

int main()

{

int i,n,s=0;

printf("Enter a number: ");

scanf("%d",&n);

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

s=s+(2\*i+1);

printf("\nSum of first %d odd natural numbers is %d",n,s);

return 0;

}

4. Write a program to calculate sum of squares of first N natural numbers

#include<stdio.h>

int main()

{

int i,n,s=0;

printf("Enter a number: ");

scanf("%d",&n);

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

s=s+i\*i;

printf("\nSum of squares of first %d natural numbers is %d",n,s);

return 0;

}

5. Write a program to calculate sum of cubes of first N natural numbers

#include<stdio.h>

int main()

{

int i,n,s=0;

printf("Enter a number: ");

scanf("%d",&n);

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

s=s+i\*i\*i;

printf("\nSum of cubes of first %d natural numbers is %d",n,s);

return 0;

}

6. Write a program to calculate factorial of a number

#include<stdio.h>

int main()

{

int i,n,f=1;

printf("Enter a number: ");

scanf("%d",&n);

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

f=f\*i;

printf("\nFactorial of %d is %d",n,f);

return 0;

}

7. 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("\nNumber of digits are %d",count);

return 0;

}

8. Write a program to check whether a given number is a Prime number or

not

#include<stdio.h>

int main()

{

int i,n;

printf("Enter a number: ");

scanf("%d",&n);

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

if(n%i==0)

break;

if(i==n)

printf("\nThis is a prime number");

else

printf("\nThis is not a prime number");

return 0;

}

9. Write a program to calculate LCM of two numbers

#include<stdio.h>

int main()

{

int x,y,i;

printf("Enter two numbers: ");

scanf("%d%d",&x,&y);

for(i=1;i<(x\*y);i++)

if(i%x==0&&i%y==0)

break;

printf("\nLCM of %d and %d is %d",x,y,i);

return 0;

}

10. Write a program to reverse a given number

#include<stdio.h>

int main()

{

int n,x,s=0;

printf("Enter a number: ");

scanf("%d",&n);

while(n>0)

{

x=n%10;

n=n/10;

s=s+x;

if(n==0)

break;

s=s\*10;

}

printf("Reverse number is %d",s);

}