Q1-> Write a program to calculate sum of first N natural numbers

Answer:

#include<stdio.h>

int main()

{

    int i=1,N,SUM=0;

    printf("Mention the Number: ");

    scanf("%d",&N);

    while(i<=N)

    {

        SUM=SUM+i;

        i++;

    }

            printf("%d\n",SUM);

    return 0;

}

Q2-> Write a program to calculate sum of first N even natural numbers

Answer:

#include<stdio.h>

int main()

{

    int i=2,N,SUM=0,j=1;

    printf("Mention the Number: ");

    scanf("%d",&N);

    while(j<=N)

    {

        SUM=SUM+i;

        i=i+2;

        j++;

    }

            printf("%d\n",SUM);

    return 0;

}

Q3-> Write a program to calculate sum of first N odd natural numbers

Answer:

#include<stdio.h>

int main()

{

    int i=1,N,SUM=0,j=1;

    printf("Mention the Number: ");

    scanf("%d",&N);

    while(j<=N)

    {

        SUM=SUM+i;

        i=i+2;

        j++;

    }

            printf("%d\n",SUM);

    return 0;

}

Q4-> Write a program to calculate sum of squares of first N natural numbers

Answer:

#include<stdio.h>

int main()

{

    int i=1,N,SUM=0,j=1;

    printf("Mention the Number: ");

    scanf("%d",&N);

    while(j<=N)

    {

        SUM=SUM+(i\*i);

        i=i+1;

        j++;

    }

            printf("%d\n",SUM);

    return 0;

}

Q5-> Write a program to calculate sum of cubes of first N natural numbers

Answer:

#include<stdio.h>

int main()

{

    int i=1,N,SUM=0,j=1;

    printf("Mention the Number: ");

    scanf("%d",&N);

    while(j<=N)

    {

        SUM=SUM+(i\*i\*i);

        i=i+1;

        j++;

    }

            printf("%d\n",SUM);

    return 0;

}

Q6-> Write a program to calculate factorial of a number

Answer:

#include<stdio.h>

int main()

{

    int N,MUL=1;

    printf("Mention the Number: ");

    scanf("%d",&N);

    while(N!=0)

    {

        MUL=MUL\*N;

        N--;

    }

            printf("%d\n",MUL);

    return 0;

}

Q7-> Write a program to count digits in a given number

Answer:  
#include<stdio.h>

int main()

{

    int N,Div,i;

    printf("Mention the Number: ");

    scanf("%d",&N);

    Div=N/10;

    while(Div!=0)

    {

        i++;

        Div=Div/10;

    }

    printf("%d",i);

    return 0;

}

Q8-> Write a program to check whether a given number is a Prime number or not ?

Answer:

#include<stdio.h>

int main()

{

int M,N,Divisible=0,Rem;

printf("Please enter the number: ");

scanf("%d",&N);

M=N;

while(N!=2)

{

    N=N-1;

    Rem=(M%N);

    if(Rem==0)

    {

        Divisible++;

    }

}

if(Divisible)

{

    printf("This is not prime Number");

}

else

{

    printf("This is prime Number");

}

    return 0;

}

Q9-> Write a program to calculate LCM of two numbers

Answer:

#include<stdio.h>

int main()

{

int x=2,a,b,LCM=1,A1,A2;

printf("Enter two Number to calculate LCM: ");

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

for(A1=a,A2=b;x<=a && x<=b; )

    {

            if(a%x || b%x)

            {

                x++;

                //Not Divisible with same Number

            }

            else

            {

                //Divisble both number by 2

                a=a/x;

                b=b/x;

                LCM=LCM\*x;

            }

    }

    LCM=LCM\*a\*b;

    printf("LCM of two %d & %d is: %d",A1,A2,LCM);

    return 0;

}

Q10-> Write a program to reverse a given number

Answer:

#include<stdio.h>

int main()

{

int a;

printf("Enter a Number to reverse: ");

scanf("%d",&a);

while(a)

{

    printf("%d\n",a--);

}

    return 0;

}