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\*\*USE ANY LOOP\*\*

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

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,s;

printf("ENter A number");

scanf("%d",&n);

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

{

s=s+i;

}

printf("%d",s);

}

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

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,s;

printf("Enter A number");

scanf("%d",&n);

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

{

s=s+i\*2;

}

printf("%d",s);

}

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

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,s;

printf("Enter A number");

scanf("%d",&n);

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

{

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

}

printf("%d",s);

}

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

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,s;

printf("Enter A number");

scanf("%d",&n);

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

{

s=s+(i\*i);

}

printf("%d",s);

}

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

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,s;

printf("Enter A number");

scanf("%d",&n);

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

{

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

}

printf("%d",s);

}

Q.6. Write a program to calculate factorial of a number.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,s;

printf("Enter A number");

scanf("%d",&n);

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

{

s=s\*i;

}

printf("%d",s);

}

Q.7. Write a program to count digits in a given number.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,i,count=0;

printf("Enter A number");

scanf("%d",&n);

while(n>0)

{

n=n/10;

count++;

}

printf("%d",count);

}

Q.8. Write a program to check whether a given number is a Prime number or not.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{ int n,i,count=0;

printf("Enter A number");

scanf("%d",&n);

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

{ if(n%i==0)

{ printf("Given Number is not a Prime");

count++;

break;

}

}

if(count==0)

printf("A Prime Number");

}

Q.9. Write a program to calculate LCM of two numbers.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n1,n2,max,s=1;

printf("Enter Two Numbers");

scanf("%d%d",&n1,&n2);

max=(n1>n2)?n1:n2;

while(s<2)

{

if(max%n1==0 && max%n2==0)

{

printf("LCM Of %d And %d Is %d",n1,n2,max);

s++;

} max++;

}

}

Q.10. Write a program to reverse a given number.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n,remainder,reverse=0;

printf("Enter A number");

scanf("%d",&n);

while(n!=0)

{

remainder=n%10;

reverse=reverse\*10+remainder;

n=n/10;

}

printf("\n%d",reverse);

}