**JRassignment 6**

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

#include<stdio.h>

int main()

{

int n,s=0;

printf("Enter a number ");

scanf("%d",&n);

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

s+=i;

printf("Sum of %d natural number 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 n,i,s=0;

printf("Enter a number");

scanf("%d",&n);

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

s+=2\*i;

printf("Sum of %d natural number is = %d",n,s);

}

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

#include<stdio.h>

int main()

{

int n,i,s=0;

printf("Enter a number");

scanf("%d",&n);

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

s+=2\*i+1;

printf("Sum of %d odd natural number 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 n,i,s=0;

printf("Enter a number");

scanf("%d",&n);

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

s+=i\*i;

printf("Sum of square of %d frist natural number 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 n,i,s=0;

printf("Enter a number");

scanf("%d",&n);

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

s+=i\*i\*i;

printf("Sum of cubes of frist %d natural number is = %d",n,s);

return 0;

}

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

#include<stdio.h>

int main()

{

int n,i,f=1;

printf("Enter a number to calculate factorial");

scanf("%d",&n);

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

f\*=i;

printf("Factorial 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,i,count=0,k;

printf("Enter a number");

scanf("%d",&n);

k=n;

while(n!=0)

{

n=n/10;

count++;

}

printf("Digit in %d is = %d",k,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 n,i;

printf("Enter a number to check prime");

scanf("%d",&n);

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

if(n%i==0)

break;

if(n==i)

printf("%d is prime number",n);

else

printf("%d is not prime",n);

return 0;

}

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

#include<stdio.h>

int main()

{

int a,b,i;

printf("Enter two numbers");

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

for(i=a>b?a:b;i<=a\*b;i=i+(a>b?a:b))

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

{

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

break;

}

return 0;

}

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

#include<stdio.h>

int main()

{

int n,k,re;

printf("Enter a number");

scanf("%d",&n);

while(n)

{

k=n;

re=n%10;

printf("%d",re);

n=k/10;

}

return 0;

}