```c
//1. Write a program to calculate sum of first N natural numbers.
#include <stdio.h>
int main()
{
    int n, i, sum = 0;

    printf("Enter a number : ");
    scanf("%d", &n);

    for (i = 1; i <= n; ++i)
    {
        sum += i;
    }

    printf("Sum = %d", sum);
    return 0;
}
```

```c
//2. Write a program to calculate sum of first N even natural numbers.
#include <stdio.h>
int main()
{
    int i,n,sum=0;

    printf("Enter a number :");
    scanf("%d",&n);

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

```c
    {
     printf("%d\n",2*i);
     sum=sum+2*i;
    }


    printf("Sum = %d",sum);


     return 0;
}
```


```c
//3. Write a program to calculate sum of first N odd natural numbers.
#include <stdio.h>
int main()
{
  int i,n,sum=0;

  printf("Enter a number :");
  scanf("%d",&n);

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

  {
    printf("%d\n",2*i-1);
    sum=sum+2*i-1;
  }

  printf("Sum = %d",sum);

   return 0;
```

```
}
```

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

```c
#include <stdio.h>
int main()
{
  int i,n,sum=0;

  printf("Enter a number :");
  scanf("%d",&n);

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

  {
     printf("%d\n",i*i);
     sum=sum+i*i;
  }

  printf("Sum = %d",sum);

   return 0;
}
```

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

```c
#include <stdio.h>
int main()
{
```

```c
  int i,n,sum=0;

  printf("Enter a number :");
  scanf("%d",&n);

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

  {
    printf("%d\n",i*i*i);
    sum=sum+i*i*i;
  }

  printf("Sum = %d",sum);

   return 0;
}
```

```c
//6. Write a program to calculate factorial of a number.
#include <stdio.h>
int main()
{
  int i,n,fact=1;

  printf("Enter a number :");
  scanf("%d",&n);

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

  {
```

```c
      fact=fact*i;
  }

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

   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("Number of digit is %d",count);


   return 0;
}
```

```c
//8. Write a program to check whether a given number is a Prime number or not.
#include <stdio.h>
int main()
{
  int n,i,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 prime.");
  else
   printf("Prime.");
   return 0;
}
```

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

```c
#include <stdio.h>
int main()
{
  int i , a , b;

  printf("Enter two numbers :");
  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;
}
```

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

```c
#include <stdio.h>
int main()
{
  int i , n , remainder , reverse;

  printf("Enter a number :");
  scanf("%d ",&n);
```

```c
    while(n!=0)

    {

        remainder=n%10;

        n=n/10;

        reverse=reverse*10+remainder;

    }


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


    return 0;

}
```