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

```
#include<stdio.h>
int main()
{
    int i = 1, n, sum =0;
    printf("Enter a number ");
    scanf("%d", &n);
    do
    {
        sum = sum + i;
        i++;
    } while (i<=n);
    printf("Sum of first %d natural number = %d", n, sum);
}</pre>
```

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

```
#include<stdio.h>
int main()
{
    int i = 1, n, sum = 0;
    printf("Enter a number ");
    scanf("%d", &n);
    do
    {
        sum = sum + 2*i;
        i++;
    } while (i<=n);
    printf("Sum of first %d even natural number = %d", n, sum);
}</pre>
```

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

```
#include<stdio.h>
int main()
{
    int i = 1, n, sum =0;
    printf("Enter a number ");
    scanf("%d", &n);
    do
    {
        sum = sum + 2*i-1;
        i++;
    } while (i<=n);
    printf("Sum of first %d odd natural number = %d", n, sum);
}</pre>
```

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

```
#include<stdio.h>
int main()
   int i = 1, n, sum = 0;
   printf("Enter a number ");
   scanf("%d", &n);
   do
   {
      sum = sum + i*i;
      i++;
   \} while (i<=n);
   printf("Sum of squares of first %d even natural number = %d", n, sum);
5. Write a program to calculate sum of cubes of first N natural numbers
#include<stdio.h>
int main()
   int i = 1, n, sum = 0;
   printf("Enter a number ");
   scanf("%d", &n);
   do
      sum = sum + i*i*i;
      i++;
   \} while (i<=n);
   printf("Sum of cubes of first %d even natural number = %d", n, sum);
}
6. Write a program to calculate factorial of a number
#include<stdio.h>
int main()
   int n,i,fact=1;
   printf("Enter a number ");
   scanf("%d", &n);
   for (i = 1; i \le n; i++)
      fact = fact*i;
   printf("factorial of %d is = %d",n,fact);
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);
8. Write a program to check whether a given number is a Prime number or not
#include<stdio.h>
int main()
   int n,i,count=0;
   printf("Enter a number ");
   scanf("%d", &n);
   for (i = 2; i < n; i++)
      if (n%i==0)
         count++;
         break;
   if (count == 0)
      printf("Prime-number");
   else
      printf("Not Prime-number");
9. Write a program to calculate LCM of two numbers
#include<stdio.h>
int main()
  int a, b, i;
  printf("Enter the numbers ");
  scanf("%d%d",&a,&b);
  for(i=1; i \le a*b; i++)
    if((i\%a==0) && (i\%b==0))
       break;
```

}

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

10. Write a program to reverse a given number

#include<stdio.h>
int main()
{
    int n, remain, rev_num = 0;
    printf("Enter a number ");
    scanf("%d", &n);
    while (n>0)
    {
        remain = n%10;
        rev_num = rev_num*10 + remain;
        n = n/10;
    }
    printf("reverse number is = %d", rev_num);
}
```