4/11/2025

1. To find first and last digit of number by using C-program

```
#include <stdio.h>
int main()
{
int n, first, last;
printf("Enter a number:");
scanf("%d", &n);
last = n%10;
while (n>=10)
   n/=10;
first =n;
printf("first digit = %d\n  last digit = %d\n", first, last);
return 0;
}
```

output :-

Enter a number : 23475

first digit = 2

last digit = 5

. Find the factorial of a given number.

```
#include <stdio.h>
int main()
{
int n, i=1, f=1;
printf("Enter the number:\n");
scanf("%d", &n);
while (i<=n)
{
   f=f*i;
```

```
        f++;
    }
    printf ("the factorial of %d is %d", n, f);
    return 0;
    }
```

output :-

Enter the number: 6

The factorial of 6 is 720

3. Find the given number is prime number or not.

```
#include <stdio.h>
int main() {
int num, i, is prime =1;
printf ("Enter a number : ");
scanf ("%d", &num);
if (num <=1)
{
 is prime =0;
} else {
 for (i=2 ; i<=num/2 ; i++)
 {
 if (num%i==0) {
 is prime =0;
 break;
 }
 }
}
if (is prime)
printf ("%d is a prime number \n", num);
 else
 printf ("%d is not a prime \n", num);
 return 0;
 }
```

out put:-

Enter a number : 36

36 is not a prime number.

4) print the given number is strong number or not

```
#include <stdio.h>
int main ()
{
int n, temp, rem, sum=0, fact;
printf ("Enter a number: ");
scanf ("%d", &n);
 temp =n;
 while (n>0) {
 rem = n % 10;
 switch (rem) {
 case 0: fact =1; break;
 case 1 : fact=1; break;
 case 2 : fact =2 ; break;
 case 3 : fact =6 ; break;
 case 4 : Fact = 24 ; break;
 case 5 : fact = 120 ; break;
 case 6 : fact = 720 ; break;
 case 7 : fact =5040 ; break;
 case 8 : fact =40320 ; break;
 case 9 : fact = 362880 ; break;
 default : fact =0;
  }
  sum = sum + fact ;
  n = n/10;
 }
 if (sum = = temp)
  printf ("%d is a strong number", temp);
  else
  printf ("%d is not a strong number", temp);
  return 0;
  }
```

output:- Enter a number : 539
539 is not a strong number

5. Find sum of all digits in a number.

```
#include <stdio.h>
int main()
{
int n, sum=0, rem;
printf("Enter a number:");
scanf("%d", &n);
while(n>0)
{
rem=n%10;
sum=sum+rem;
n=n/10;
}
printf("sum of all digits = %d", sum);
return 0;
}
```

Output:

Enter a number: 1354

sum of all digits = 13