

① #include <stdio.h>
int main() {
 int num, temp, digit;
 int sum = 0, fact;
 printf("Enter a number: ");
 scanf("%d", &num);
 temp = num;
 while (temp > 0) {
 digit = temp % 10;
 // calculate factorial of digit
 fact = 1;
 for (int i = 1; i <= digit; i++)
 fact *= i;
 sum += fact;
 temp /= 10;
 }
 printf("Sum of factorials of digits = %d", sum);
}

for $x = i;$

}

sum += fact;

temp / = 10;

}

if (sum == num)

printf("%d is a strong number\n", num);

else

printf("%d is not strong number\n", num);

return 0;

}

Output:-

* Enter a number : 145

145 is strong number.

* Enter a number : 123

123 is not a strong number.

$\underline{\underline{x}} = \underline{\underline{x}}$

②

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

Output:

* enter a number 6

6 is perfect number.

* enter a number 10

10 is a not perfect number.

— x — x —