

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
```

```
        fact = 1;
```

```
        for(int i = 1; i <= digit; i++)
```

```
    }
```

```
for x = 0;
```

```
}
```

```
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.

=====

(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("%d is a perfect number\n", num);
```

```
else
```

```
printf("%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 —