1.

Write a program that allows a user to enter a temperature (**degrees Fahrenheit,**°F), and transforms the temperature to **degrees Celsius (°C)** and **Kelvin (K)**.

Formulas:

$$[°C] = ([°F] - 32) \times 5/9$$
$$[K] = [°C] + 273.15$$

Precision in output: display 3 digits after the decimal point.

```
Please enter °F:  55.66
°C= 13.144
K= 286.294
```

2.

Write a program to computing the value of

$$1 + 1/1 + 1/2 + 1/3 + \cdots + 1/n$$ where n is an integer entered by user.

```
Input a Number: 123
Answer: 6.393459

請按任意鍵繼續 . . .
Input a Number: 456
Answer: 7.700805

請按任意鍵繼續 . . .
```

3.

(Bonus) Write a program to solve two equations with two unknowns.

ax+by = c
dx+ey = f

Note: the answer x, y should be rounded to 2 place after decimal point.

```
Enter the variable a,b,c,d,e,f: 1 2 3 4 5 6
solve the equation:
1x+2y=3
4x+5y=6
The answer x=-1.00, y=2.00
請按任意鍵繼續 . . .
```

4. 給定一個數，請計算該數的 3 進位。