

## 1. Exercise 1

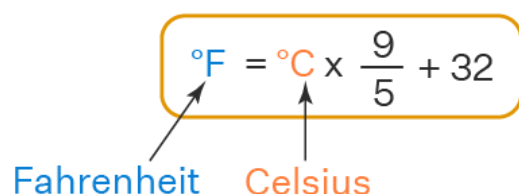
1. Develop a program to sum the first  $n$  positive integer using the following formula:

$$1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$$

Your program should ask the user to input a number and print the sum as output.

```
Input a number: 5
The sum for first 5 positive integer is: 15
```

2. Develop a Python program to convert a temperature given in degrees Fahrenheit to its equivalent in degrees Celsius by the formula:



The diagram shows the formula  $^{\circ}\text{F} = ^{\circ}\text{C} \times \frac{9}{5} + 32$  enclosed in a rounded rectangle. An arrow points from the label "Fahrenheit" to the  $^{\circ}\text{F}$  symbol, and another arrow points from the label "Celsius" to the  $^{\circ}\text{C}$  symbol.

Your program should ask the user to input Celsius and print the output in Fahrenheit.

```
Please input celsius: 38
38 Celsius is equal to 100.4 Fahrenheit
```

3. Yahoo Finance is a good place to obtain stock information free of charge. Develop a Python program to generate the URL for each stock:

```
Please input the stock code: 0005
https://hk.finance.yahoo.com/quote/0005.HK
```

4. Develop a program that asks the user for a string. Print back to the user the same string, except with the characters in backwards order.

```
Please input some text: Hello
Reversed text is: olleH
```