

Computer programming for MTE students	Group No.:
Name:	Marks:

Write a program to **convert a temperature reading** in degrees **Fahrenheit** to degree **Celsius**, using the formula, using the formula

$$C = \frac{5}{9}(F - 32)$$

The program **will not stop until the user enters a negative value** for the Fahrenheit temperature input.

```
#include <stdio.h>
#include <stdlib.h>

main()
{
    float c,f;
    printf("Temperature in Fahrenheit: ");
    scanf("%f",&f);
    while(f>=0)
    {
        c = (double) 5/9*(f-32);
        printf("Temperature in Celsius: %f",c);
        printf("\n\nTemperature in Fahrenheit: ");
        scanf("%f",&f);
    }
}
```

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Write a program that **calculate the average of a list on numbers**. The program will **not stop reading numbers until the user give a negative number**

```
#include <stdio.h>
#include <stdlib.h>

main()
{
    float x,sum = 0,av;
    int i = 0;
    printf("Number: ");
    scanf("%f",&x);
    while(x>=0)
    {
        i = i+1;
        sum = sum + x;
        printf("Number: ");
        scanf("%f",&x);
    }
    av = sum/i;
    printf("\nNumber: %f",av);
}
```

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Write a C program to **Calculate the geometric average of a list of numbers**, using the formula

$$x_{avg} = [x_1 x_2 x_3 \dots x_n]^{1/n}$$

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
main()
{
    float x, ga = 1;
    int i , n;
    printf("# Number: ");
    scanf("%d", &n);
    for(i=0; i<n; i++)
    {
        printf("\nNumber: ");
        scanf("%f", &x);
        ga = ga*x;
    }
    ga = pow(ga, (double)1/n);
    printf("\ngeometric average: %f", ga);
}
```