1. Given two numbers, Swap those two numbers without using temporary variable

Input:

Two integer values as input

Output:
num1= value
num2= value

Code:

```
#include <stdio.h>

int main()

{

        int num1 = 2, num2 = 4;

        num1 = num1 + num2;

        num2 = num1 - num2;

        num1 = num1 - num2;


        printf("num1 = %d\nnum2 = %d", num1, num2);

}
```

Output:
num1= 4
num2= 2

2. Calculate the number of years,weeks and the remaining days for the given total days

Input:

Any Integer

Output:
Number of Years:NO_OF_COMPLETE_YEARS
Number of Week:NO_OF_WEEKS_LEFTOUT
Number of Days:NO_OF_DAYS_LEFTOUT

Code:

```
#include <stdio.h>


int main() {
   int totalDays, years, weeks, days;


   printf("Enter the total number of days: ");
   scanf("%d", &totalDays);


   years = totalDays / 365;
   weeks = (totalDays % 365) / 7;
   days = (totalDays % 365) % 7;


   printf("Number of Years: %d\n", years);
   printf("Number of Weeks: %d\n", weeks);
   printf("Number of Days: %d\n", days);


   return 0;
}
```

Output:

```
Number of Years:1
Number of Week:19
Number of Days:2
```

3. Evaluate a polynomial of degree n.

Input:

Enter the degree of the polynomial: 3

Enter the coefficients: 2 -1 3 4

Enter the value of x: 2

Output:

P(2)

Code:

```
#include <stdio.h>
int main() {
   int degree, i;
   double x, result = 0;
  printf("Enter the degree of the polynomial: ");
   scanf("%d", &degree);
  double coefficients[degree + 1];
 printf("Enter the coefficients (from highest degree to constant term): ");
   for (i = degree; i >= 0; i--) {
      scanf("%lf", &coefficients[i]);
   }
printf("Enter the value of x: ");
   scanf("%lf", &x);

   for (i = degree; i > 0; i--) {
      result = (result + coefficients[i]) * x;
   }
```

```
    result += coefficients[0];
 printf("P(%lf) = %lf\n", x, result);
  return 0;
}
```

Output:

P(2)=1.000