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, num2;

   printf("Enter num1:\n");
   scanf("%d", &num1);
  printf("Enter num2:\n");
   scanf("%d", &num2);

   num1 = num1 + num2;
   num2 = num1 - num2;
   num1 = num1 - num2;

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

   return 0;
}
```

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, daysLeft;

   printf("Enter total days:\n");
   scanf("%d", &totalDays);

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


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

```
    printf("Number of Days: %d\n", daysLeft);

    return 0;
}
```

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, x;
    printf("Enter the degree of the polynomial: ");
    scanf("%d", &degree);

    int coefficients[degree + 1];
    printf("Enter the coefficients (from highest degree to constant term): ");
    for (int i = degree; i >= 0; i--) {
        scanf("%d", &coefficients[i]);
    }

    printf("Enter the value of x: ");
    scanf("%d", &x);

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

    printf("P(%d) = %d\n", x, result);

    return 0;
}
```