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

```
#include <stdio.h>
void swap(int a,int b)
{
	a = a+b;
	b = a-b;
	a = a-b;
	printf("AFTER SWAPPING:\n");
	printf("a = %d b = %d",a,b);
}
int main()
{
	int a,b;
	printf("Enter a:");
	scanf("%d",&a);
	printf("\nEnter b:");
	scanf("%d",&b);
	swap(a,b);
	return 0;
}
```

Output

```
Enter a:99
Enter b:80
AFTER SWAPPING:
a = 80 b = 99
```

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

```
#include <stdio.h>
void calculate(int days)
{
	int year, week, rdays, weekdays = 7;
	//365 days in a year
	year = days / 365;
	week = (days % 365) / weekdays;
```

```
        rdays = (days % 365) % weekdays;
        printf("Number of years = %d",year);
        printf("\nNumber of weeks = %d", week);
        printf("\nNumber of days = %d ",rdays);
}
int main()
{
        int days;
        printf("Enter number of days:");
        scanf("%d",&days);
        calculate(days);
        return 0;
}
```

Output

```
Enter number of days:670
Number of years = 1
Number of weeks = 43
Number of days = 4
```

3. Evaluate a polynomial of degree n.

```
#include <stdio.h>

void main()
{
   int array[10];
   int i, num;
   float x, polySum;

   printf("Enter the order of the polynomial \n");
   scanf("%d", &num);
   printf("Enter the value of x \n");
   scanf("%f", &x);
   printf("Enter %d coefficients \n", num + 1);
```

```
   for (i = 0; i <= num; i++)
    {
       scanf("%d", &array[i]);
    }

    polySum = array[0];
    for (i = 1; i <= num; i++)
    {
       polySum = polySum * x + array[i];
    }
    printf("\n Sum of the polynomial = %.2f \n", polySum);
}
```

Output

```
Enter the order of the polynomial
3
Enter the value of x
2
Enter 4 coefficients
2
-1
3
4
Sum of the polynomial = 22.00
```