

1, Given two numbers, Swap those two numbers without using temporary variable Input: Two integer values as input Output: num1= value num2= value

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

```
int main() {
```

```
    int num1, num2;
```

```
    // Input two numbers
```

```
    printf("Enter num1: ");
```

```
    scanf("%d", &num1);
```

```
    printf("Enter num2: ");
```

```
    scanf("%d", &num2);
```

```
    // Swapping without using a temporary variable
```

```
    num1 = num1 + num2;
```

```
    num2 = num1 - num2;
```

```
    num1 = num1 - num2;
```

```
    // Output the swapped values
```

```
    printf("After swapping:\n");
```

```
    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

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

```
int main() {
```

```

int totalDays;

// Get input from the user
printf("Enter the total number of days: ");
scanf("%d", &totalDays);

// Calculate years, weeks, and remaining days
int years = totalDays / 365;
int remainingDays = totalDays % 365;
int weeks = remainingDays / 7;
remainingDays = remainingDays % 7;

// Display the result
printf("Number of Years: %d\n", years);
printf("Number of Weeks: %d\n", weeks);
printf("Number of Days: %d\n", remainingDays);

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)

$$P(x) = 2x^3 - x^2 + 3x + 4$$

$$P(2) = 2(2)^3 - (2)^2 + 3(2) + 4$$

$$P(2) = 2(8) - 4 + 6 + 4$$

$$P(2) = 16 - 4 + 6 + 4$$

$$P(2) = 22$$

So the output will P(2) when X=2 is 22