**QUIZ 1**

**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;

    printf("Enter the first number (num1): ");

    scanf("%d", &num1);

    printf("Enter the second number (num2): ");

    scanf("%d", &num2);

    num1 = num1 ^ num2;

    num2 = num1 ^ num2;

    num1 = num1 ^ num2;

    printf("After swapping:\n");

    printf("num1 = %d\n", num1);

    printf("num2 = %d\n", num2);

    return 0;

}

OUTPUT:

Enter the first number (num1): 10

Enter the second number (num2): 20

After swapping:

num1 = 20

num2 = 10

**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() {

    printf("Enter the total number of days: ");

    int totalDays;

    scanf("%d", &totalDays);

    int years = totalDays / 365;

    int remainingDays = totalDays % 365;

    int weeks = remainingDays / 7;

    int days = remainingDays % 7;

    printf("Equivalent Duration:\n");

    printf("Years: %d\n", years);

    printf("Weeks: %d\n", weeks);

    printf("Days: %d\n", days);

    return 0;

}

OUTPUT:

Enter the total number of days: 900

Equivalent Duration:

Years: 2

Weeks: 24

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

#include <stdio.h>

#include <math.h>

int main() {

    int degree;

    double x;

    printf("Enter the degree of the polynomial: ");

    scanf("%d", &degree);

    int coefficients[degree + 1];

    printf("Enter the coefficients: ");

    for (int i = 0; i <= degree; i++) {

        scanf("%d", &coefficients[i]);

    }

    printf("Enter the value of x: ");

    scanf("%lf", &x);

    double result = 0;

    for (int i = 0; i <= degree; i++) {

        result += coefficients[i] \* pow(x, i);

    }

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

    return 0;

}

OUTPUT:

Enter the degree of the polynomial: 3

Enter the coefficients: 2-1 3 4

Enter the value of x: 3

P(3.000000) = 134.000000