**Programming Exercise #3**

Write a program to simulate Segmentation. Compute the physical address. Take as input:

1. Segment number
2. Base address
3. Segment limit

#include <stdio.h>

#include <stdlib.h>

int main()

{

    int segment\_number, base\_address, segment\_limit, offset, physical\_address;

    printf("Enter segment number: ");

    scanf("%d", &segment\_number);

    printf("Enter base address: ");

    scanf("%d", &base\_address);

    printf("Enter segment limit: ");

    scanf("%d", &segment\_limit);

*// Input offset*

    printf("Enter offset: ");

    scanf("%d", &offset);

    if (offset >= segment\_limit) {

        printf("Error: Offset is outside the segment limit.\n");

        exit(0);

    }

    physical\_address = base\_address + offset;

    printf("Physical address: %d\n", physical\_address);

    return 0;

}

