

Assignments for Operators, Operands, Expressions

Write a program to calculate the sum of the digits of a user- entered number. Ensure that your program scans not more than 4 digits.

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

```
int main()
{
    int num, sum=0;

    /*
     * Reads a number from user
     */
    printf("Enter any number to find sum of its digit: ");
    scanf("%d", &num);

    /*
     * Finds the sum of digits
     */
    for(int i=0; i<4; i++)
    {
        /* Find the last digit from num and add to sum */
        sum += num % 10;

        /* Removes last digit from num as its work has been done*/
        num = num / 10;
    }

    printf("\nSum of digits = %d", sum);

    return 0;
}
```

// Write a program to swap two variables using a third variable

```
#include <stdio.h>
int main()
{
    int var1, var2, temp;
    printf("Enter two integersn");
    scanf("%d%d", &var1, &var2);
    printf("Before SwappingnFirst variable = %dnSecond variable = %dn", var1, var2);
    temp = var1;
    var1 = var2;
    var2 = temp;
    printf("After SwappingnFirst variable = %dnSecond variable = %dn", var1, var2);
    return 0;
}
```

// Some code
Write a program to swap two variables without using a third variable

```
// Some code
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int a=10, b=20;
    printf("Before swap a=%d b=%d",a,b);
    a=a*b;//a=200 (10*20)
    b=a/b;//b=10 (200/20)
    a=a/b;//a=20 (200/10)
    system("cls");
    printf("\nAfter swap a=%d b=%d",a,b);
    return 0;
}
```

