

Department of Information Systems and Technologies  
**CTIS151 – Introduction to Programming**  
SPRING 2023 – 2024

## Extra Question # 08

Write the function **menu** that display a menu as follows, reads and validates the user's choice. The function returns the user's choice.

```

MENU
*****
A. Add fractional parts of two numbers
B. Convert a double number to decimal
C. QUIT

```

- Write the function **fracPart** that gets a double number, and returns its fractional part.
- Write the function **roundNum** that gets a double number. If the fractional of the number is greater than or equal to 0.5, function returns integer number plus one. Otherwise, it returns the integer number.

Write a C program that displays a menu, reads and validates the user's choice, according to the options in the menu, your program should perform the appropriate operations using a function for each.

**Project Name:** EQ9

**File Name:** EQ9.cpp

**Example Run:**

```

MENU
*****
A. Add fractional parts of two numbers
B. Convert a double number to decimal
C. QUIT
Enter your choice: Z
Enter your choice: K
Enter your choice: B
Enter a double number: 4.5321
The number 4.5321 converted to the decimal number 5

```

```

MENU
*****
A. Add fractional parts of two numbers
B. Convert a double number to decimal
C. QUIT
Enter your choice: B
Enter a double number: 6.421
The number 6.4210 converted to the decimal number 6

```

```

MENU
*****
A. Add fractional parts of two numbers
B. Convert a double number to decimal
C. QUIT
Enter your choice: A
Enter two double numbers: 12.4125 8.974
0.4125 + 0.9740 = 1.3865

```

```

MENU
*****
A. Add fractional parts of two numbers
B. Convert a double number to decimal
C. QUIT
Enter your choice: C

```