Practice Problem

- Write a code to sum the first *n* digits (1+2+3+...+n)
- Ask the user to provide the value for n
- Calculate the sum for the n that was provided (use for loop)
- Print the final sum

Submit .cpp file called

"Mena_Time_CForloopTeam#"

("Mena_10am_CForloopL01") into Classwork folder

```
□#include <stdio.h>
 #include <stdlib.h>
⊡int main(void)
     //Declare variables
     int n, the_sum, i;
     //Ask user to provide n
     printf("What value of n would you like?");
     scanf("%d", &n);
     //Initialize sum variable
     the sum = 0;
     //For loop to calculate sum
     for (i = 1; i \le n; i = i + 1)
         the_sum=the_sum+i;
     printf("The sum is %d", the sum);
```

Practice Problem

- Write a program asking the user to enter elements of a 2x2 matrix A
- Then display the elements (2 decimal places) as shown in the output
- Use for loops to get the inputs and then to print the values

Submit .cpp file called "Mena_Time_CMoreLoopsTeam#" ("Mena_10am_CMoreLoopsL01") into Classwork folder

```
#include <stdio.h>
 #include <stdlib.h>
⊡int main(void)
     int i, j;
     double a[2][2];
     //Get inputs from user
     printf("\n\nPlease enter the elements of Matrix a\n");
     for (i = 0; i<2; i = i + 1)
        for (j = 0; j<2; j = j + 1)
            printf("Enter element in ROW=%d, COL=%d: ", i + 1, j + 1);
            scanf("%lf", &a[i][j]);
     //Print values
     printf("----");
     printf("\nYou have entered the following elements for Matrix a:\n");
     for (i = 0; i<2; i = i + 1)
        for (j = 0; j<2; j = j + 1)
            printf("%.2lf\n", a[i][j]);
```