**//5. Sum and difference of two numbers in C**

**#include** **<**stdio.h**>**

**#include** **<**string.h**>**

**#include** **<**math.h**>**

**#include** **<**stdlib.h**>**

**int** main()

{

**int** a,b;

**float** c,d;

    scanf("%d %d",&a,&b);

    printf("%d %d",a+b,a-b);

    printf("\n");

    scanf("%f %f", &c,&d);

    printf("%.1f %.1f",c+d,c-d);

*//If we just write %f, it prints the float number with random digits after the decimal. %.1f is to specify the number of digits after decimal. (1 means 1 digit after decimal, 2 for two and so on...)*

**return** 0;

}

**//6. Playing with characters (taking a character, string and sentence // as an input)**

**#include** **<**stdio.h**>**

**#include** **<**string.h**>**

**#include** **<**math.h**>**

**#include** **<**stdlib.h**>**

**int** main()

{

**char** ch;

**char** string[20];//type remains char, for a string we declare size

**char** sentence[2000];

    scanf("%c",&ch);

    scanf("%s",string); //We don’t use & in case of []

    scanf("\n"); //this line is required so that sentence doesn’t read the previous line as input.

    scanf("%[^\n]%\*c",sentence);//expression for sentence as input

    printf("%c\n",ch);

    printf("%s\n",string);

    printf("%s",sentence);

**return** 0;

}