

Assignment-I (Basics of C Programming)

For all the programs, display a proper message to the user while reading the inputs from the input device which will increase the readability of your code. Also, while displaying the output, use a proper message which will convey a proper meaning of the output. Make this as a usual practice while writing the code. For math function use `-lm` command during compilation (`$ gcc file.c -lm`).

1. WAP which will format console output using `'\n', '\t', '\b'` within `printf` statement.
2. WAP to print 'See C is Sea' five times on the console.
3. WAP which will accept an integer, a decimal number, a character and a string from the keyboard and display them one per line.
4. WAP that will print your mailing address in the following format
First line : Your Name
Second line : House No, Street
Third line : City
Fourth line : State, Pin code
5. WAP which will accept two integers (a and b) from the input device and display the results of their sum, difference, product, division and mod on the console by assuming a simple arithmetic calculator. Repeat the same for two decimal numbers.
6. WAP which will compute the simple and compound interest and display them on the console.
7. WAP that reads the values of three variables a, b and c from the input device and then compute and display the value of d, where $d = (a-b)/(b+c)$.
8. Relationship between Celsius (C) and Fahrenheit (F) is governed by the following formula
$$F = 9C/5 + 32$$

WAP to convert the Celsius to Fahrenheit and vice versa.
9. Area (A) of a triangle is given by the formula $A = \sqrt{S(S-a)(S-b)(S-c)}$
Where a, b and c are sides of the triangle and $2S = a + b + c$. WAP to compute the area of the triangle given the values of a, b and c.
10. The line joining the points (2, 2) and (5, 6) which lie on the circumference of a circle is the diameter of the circle. WAP to compute the area and perimeter of the circle.