

## **Weekly Assignment 2**

1. Write a Python program, which reads a, b and c as sides of a triangle and prints area. Hint:  $\text{area} = \sqrt{s * (s - a) * (s - b) * (s - c)}$  . [Hint:  $s$  is  $(a+b+c)/2$ ]. If input 5,7,10 then output 16.24.
2. Write a Python program that accepts principle, rate and time from the user and print the simple interest.
3. Write a Python program that prompts the user to input principle, rate, and time and calculate compound interest.
4. Write a Python program, which reads x1, y1, x2 and y2 and finds distance between points (x1, y1) and (x2, y2). If input 3(x1), 7(y1), 11(x2), 13(y2) then output 10.
5. Write a Python program, which reads a, b, and c. Let  $ax + by + c = 0$  be equation of a line. Print the slope. If input 3, 5, 8 then output -0.6.