Advanced Python Training

Assignment – 3

Problem 1.   Write a Bank class which includes the methods for managing the accounts and transactions

Problem 2.   Write a Python program to develop a custom iterator that iterates over a tree data structure.

Problem 3.   Write a Python program to construct standard shapes like circle, rectangle, square, and other. Implement Boolean operations using shapes as combinations. In case of Intersection, identify the new shape and return the area.

Problem 4.   Implement the computation of the Convex Hull for a random set of n 2D points using python OOPS

Problem 5.   Implement the algorithm to split the given Delaunay triangulation into two sections by colour, with vertices coloured blue and red using python OOPs.