## **Directions**

- Complete Chapter 9 "Basic Al and Enemy Behavior" in the Learning C# textbook by Ferrone.
- You are expected to do everything in the chapter for this submission--and beware: the book doesn't always number the steps!
- The summary below is to help you know what to show in your recordings. It's NOT a substitute to reading the chapter.

## Chapter 9 Summary in Brief

- Select Environment, click arrow icon next to Static, choose Navigation Static (Yes, change children).
  Window > AI > Navigation, select Bake tab, click Bake. You'll see a new folder inside the Scenes folder with lighting, navigation mesh, and reflection probe data [In the Assets folder I saw a folder named after my project, containing only a NavMesh]
- 2. Create Empty GameObject Patrol\_Route. Add Empty child GameObjects (Location\_1, 2, 3, 4), move each to a corner of the ground.
- 3. Enemy moves from one Location to next, infinite loop: EnemyBehavior script has a public List<Transform> variable to hold all the Locations, and MoveToNextPatrolLocation() method. In Hierarchy drag the Patrol\_Route in. Run the game to see the list populate. Add code to advance to **next location** and **loop back** to first location.
- 4. EnemyBehavior makes NavMeshAgent pursue Player if they get close: in OnTriggerEnter(Collider other), if Player set \_agent.destination = Player.position;
- 5. Enemy contact damages Player: PlayerBehavior lowers \_gameManager.HP by 1 OnCollisionEnter if(collision.gameObject.name == "Enemy")
- 6. Bullet can damage and kill an Enemy: EnemyBehavior sets up 3 lives per enemy, **Collision with a Bullet** lowers by 1, destroys it when 0.
- 7. Create a Loss Condition button. GameBehavior says if(\_playerHP <= 0) stops game, shows Progress text, and makes LossButton SetActive(). Possibly refactor win/loss.