Project Description: 2D Tank Battle Game

We are looking to develop a **2D turn-based tank battle game** set on an **8x8 grid-based battlefield**, where two players control tanks and engage in combat.

Game Requirements:

1. Game Board & Controls:

- The game takes place on an 8x8 board.
- Two players control their tanks using the keyboard:
 - Player 1: Moves with W, A, S, D and shoots with Space.
 - Player 2: Moves with Arrow Keys and shoots with Enter.

2. Combat Mechanics:

- o Each player owns one or more tanks, with the following attributes:
 - **HP** (**Hit Points**): The tank's health.
 - **Armor:** Reduces incoming damage from enemy projectiles.
 - **Damage:** The amount of damage the tank's projectile deals.
 - **Price:** The cost of the tank (used for balancing or a purchasing system).

3. Weapon System:

- o Tanks can fire projectiles, categorized into three types:
 - Standard Projectile: Deals damage equal to (projectile damage target's armor). If the armor value is higher than the projectile's damage, the tank takes 0 damage.
 - AP Projectile (Armor Piercing): Ignores the target's armor and deals full damage directly to HP.
 - HE Projectile (High Explosive): Causes area-of-effect (AoE) damage around the impact location, affecting multiple targets.

4. Game Objective:

 Players must outmaneuver and destroy their opponent's tanks using strategic positioning and the right choice of ammunition.