SE 1105 PROGRAMMING AND PROBLEM SOLVING I

Task: Turn-Based Combat Game

You are tasked with completing the implementation of a turn-based combat game in C. The game involves two players, each taking turns to roll a dice, choose a weapon, and attack their opponent. The goal is to reduce the opponent's health to zero.

Game Mechanics:

- 1. Players start with full health (100).
- 2. Players take turns rolling a six-sided dice.
- 3. The player with the higher dice roll gets to choose a weapon (Knife, Gun, or Grenade).
- 4. The chosen weapon determines the damage inflicted on the opponent.
- 5. The damage can be modified based on a randomly determined hit type (Normal, Critical, Headshot).
 - Normal hit: 75% probability, no damage modification.
 - Critical hit: 20% probability, double the damage.
 - Headshot: 5% probability, instant kill.
- 6. The game continues until one player's health reaches zero.

Instructions:

- Implement the get_hit_type function to randomly determine the hit type based on the given probabilities.
- 2. Modify the attack function to incorporate the hit type modifications:
 - Normal hit: no change to damage.
 - Critical hit: double the damage.
 - Headshot: instantly kill the opponent.
- 3. Complete the game loop to continue playing until one player's health is depleted.
- 4. Announce the winner at the end of the game.