**Tank Battle**



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**Course:**

CSC-102 Programming Fundamentals

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* Tank Battles:

Tank Battle Mayhem is an exciting game where you control a powerful tank. In each round, face off against three smart enemy tanks with powerful weapons and clever strategies.

* Story Line:

In a tank world, you're the commander on a big mission. There are tough challenges – a sneaky blue tank, a fiery red tank, and a tricky obstacle. With your tank having 8 health points, your job is to be smart and use a special firepower to beat them all. Outsmart the blue tank, avoid the red tank's flames, and get past the tricky obstacle. It's a battle where being clever is how you win. Are you up for the challenge?

* Enemy Types:

## Blue Tank:

In its striking cobalt blue armor, is the epitome of defensive prowess. Agile and armed with a rapid-fire cannon, this tank demands strategic finesse to outmaneuver and conquer.

## Red Tank:

Painted in ominous red hues, brings relentless aggression to the battlefield. Armed with a fiery flamethrower, this tank requires precise aiming and quick thinking to extinguish its fiery onslaught.

## Yellow Obstacle:

The sneaky obstacle moves diagonally, presenting a special challenge. With its dark camouflage, players must move carefully to avoid getting hit by this hidden threat.

* Rules & Interactions:

# Yellow Obstacle:

1. Health Points: 6
2. Movement: Diagonal
3. Threat: Continuous damage on contact
4. Objective: Navigate with precision to avoid damage and eliminate the obstacle.

# Blue Enemy:

1. Health Points: 4
2. Characteristics: Agile with a rapid-fire cannon
3. Challenge: Strategically outmaneuver and counter the defensive capabilities of the Blue Tank.

# Red Enemy:

1. Health Points: 3
2. Characteristics: Aggressive with a flamethrower
3. Challenge: Employ quick thinking and precise aiming to extinguish the fiery assaults of the Red Tank.

# Player Tank:

1. Health Points: 8
2. Special Firepower: Deals 3 points of damage
3. Objective: Eliminate all enemies without losing all health.
4. Strategy: Use the special firepower strategically to maximize impact and survival.

# Your Goal:

1. Successfully eliminate all enemies without the player tank being destroyed.
2. Use the special firepower wisely to overcome powerful tank.
3. Adapt tactics to navigate the battlefield, considering the unique characteristics of each enemy.

* **Wireframes**
* **Data Structures:**
* **Function Prototypes**
* **Complete Code of the Business Application**
  + Here you have to give all the code of your business application.