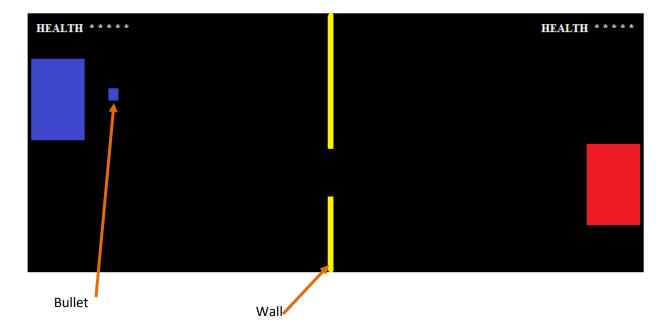
Final Project:

Below is the ASCII map of Intel 8086 microprocessor

```
000: null 032: spa 064: € 096: ` 128: C 160: á 192: L 224: α 001: O 033: ¹ 065: A 097: a 129: ŭ 161: í 193: L 225: B 002: O 034: '' 066: B 098: b 130: É 162: ó 194: L 226: Γ 003: V 035: # 067: C 099: c 131: â 163: ú 195: L 227: E 004: V 036: $ 068: D 100: d 132: à 166: ñ 196: - 228: E 005: $ 037: X 069: E 101: e 133: à 165: ñ 197: L 229: g 006: $ 037: X 069: E 101: e 133: à 166: ñ 198: L 229: g 006: $ 038: $ 070: F 102: f 134: $ 166: $ 198: L 230: µ 007: beep 039: ' 071: G 103: g 135: c 167: $ 109: L 230: µ 007: beep 039: ' 071: G 103: g 135: c 167: $ 109: L 230: µ 008: back 040: ⟨ 072: H 104: h 136: $ 168: $ 200: L 232: $ 009: tab 041: ➤ 073: I 105: i 137: $ 169: r 201: L 233: B 010: newl 042: ★ 074: J 106: j 138: $ 170: r 202: L 234: R 011: $ 044: ♠ 075: K 107: $ 139: i 171: $ 203: µ 235: $ 012: $ 044: ♠ 075: K 107: $ 139: i 171: $ 203: µ 235: $ 012: $ 044: ♠ 075: K 108: I 140: î 172: $ 205: = 237: $ 014: $ 044: ♠ 079: O 111: O 143: $ 177: $ 205: = 237: $ 014: $ 044: ♠ 047: ✓ 079: O 111: O 143: $ 177: $ 207: L 239: $ 015: ★ 047: ✓ 079: O 111: O 143: $ 177: $ 207: L 239: $ 016: ★ 047: ✓ 079: O 111: O 143: $ 177: $ 207: L 239: $ 016: ★ 047: ✓ 079: O 111: O 143: $ 177: $ 207: L 239: $ 017: L 233: $ 027: L 239: L 240: L 24
```

Write an 8086 assembly code that does the following:

- Show a welcome screen with "Press a if player 1 is ready" and "press ↑ if player 2 is ready"
- Once the two players are ready, the game starts and the interface should look like this



- The wall is continuously moving up and down.
- Any time player 1 hits 'a' or player 2 hits '个' a bullet is fired
- If the bullet hits the wall, the bullet disappears
- If the bullet passes to the other player, one * is removed from its health
- Each player can fire a single bullet and should wait for the first bullet to end before firing the next bullet
- The two players can fire simultaneously
- The game ends when a player looses all *
- Once the game ends, the game should reload from the beginning
- Use ASCII 219 to draw the player blocks, sliding wall, and bullets
- The players blocks and the sliding wall should have different colors as seen in the image above
- Progress reports (code) should be submitted regularly on e-learning

NOTES:

- No email/late submissions will be accepted
- Cheating will not be tolerated. The use of codes available online is considered cheating
- No extension will be made on the project deadline