**Purwadhika**
Digital Technology School

**Full Stack Web Development**
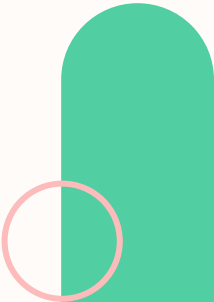
# Exercise

# Exercise - Shooting Game

- **Specifications** :
  - Create a shooting game between two player
  - Each player has three properties : name, health and power
  - Each player will take turns to shooting
  - Before shooting, players get a chance to get random items (health +10 or power +10)
  - The game will continue until one of the players has health < 0
- **Requirements** :
  - Create **ShootingGame** & **Player** class
  - **ShootingGame** class :
    - **constructor(player1, player2)** ➜ player objects as a parameter
    - **getRandomItem()** ➜ return `{ health: 0 or 10, power: 0 or 10 }`
    - **start()** ➜ start shooting games
  - **Player** class :
    - **Property ➜ name, health (default 100), power (default 10)**
    - **hit(power)** ➜  subtract player health
    - **useItem(item)** ➜ apply item to player (increase health or power, based on result from **getRandomItem()**)
    - **showStatus()** ➜ show player status (ex : "*Player A (Health => 100, Power => 10)* ")
  - ShootingGame **start()** function flow :
    - In every turn :
      - Show each player status before shooting
      - Get random item for each player before shooting
      - Show each player status after shooting
    - Show winner name
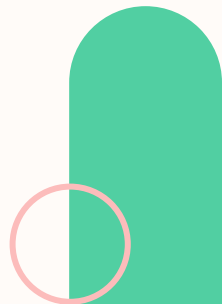
# Exercise - Employee Salary

- **Specifications** :
    - Create a program to calculate total salary based on employee type
    - There are two types of employee : **full-time** & **part-time**
    - Salary for full-time employee :
        - IDR 100.000 / hour
        - IDR 75.000 / hour, if the number of working hours per day is more than 6 hours
    - Salary for part-time employee :
        - IDR 50.000 / hour
        - IDR 30.000 / hour, if the number of working hours per day is more than 6 hours
- **Requirements** :
    - Create an **Employee** as a parent class
    - Create a **FulltimeEmployee** and **ParttimeEmployee** as a child of **Employee** class
        - Create a method in that class to add working hour per day
        - Create a method in that class to calculate total salary
    - Use inheritance concept

# Thank You!