Ruby Terminal App

Harry Potter Trivia game

Overview:

1. A walk-through the terminal App, the features

2. A walk-through of the logic and the code

3. Review of the development process

Walk-through of the terminal application

I decided to create a **simple Trivia Game** with a **Harry Potter theme.**

The **main features** are:

- Multi-players between 1 and 4
- 3 difficulties:
    - Easy with multi-choice
    - Medium with prompt
    - Hard with timer
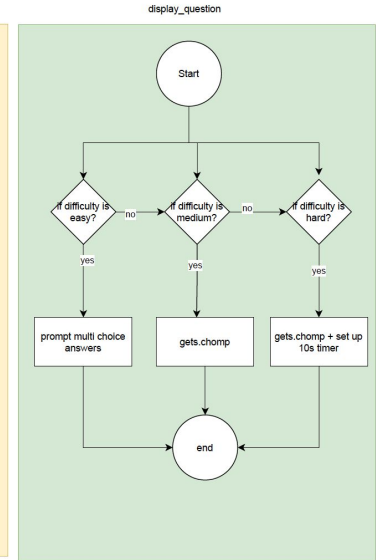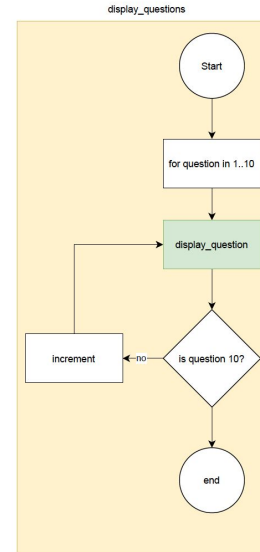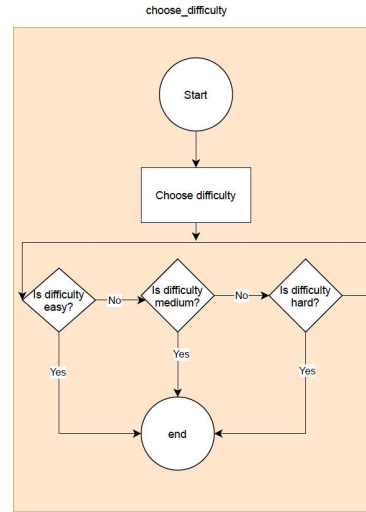- Display questions
- Display leaderboard

    They use the class Player with instance variables: name and total_score

The features:

The main file: **Trivia.rb** that require 4 others files:

- **how_many_players** that use gem tty-prompt to select the numbers of players
- **choose_difficulty** that use gem tty-prompt to select the difficulty
- **get_questions** that is an array of hashes with questions/answers that will be chosen randomly
- **display_question** that will display a number of questions I decide, depending on difficulty and for each player and will store the score.
- **Display_leaderboard** that will congratulate the winner of the game and then display the score for each player from the one who has the most points to the lowest

Walk-through of the logic of the terminal app
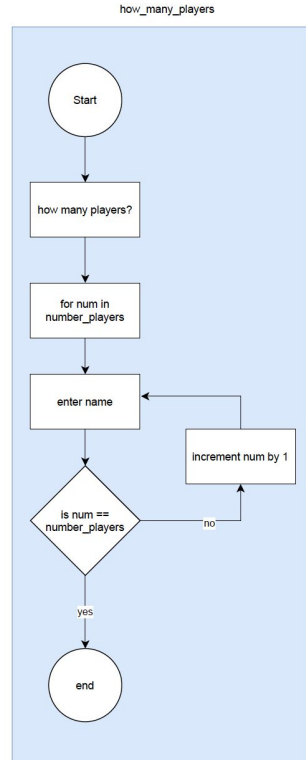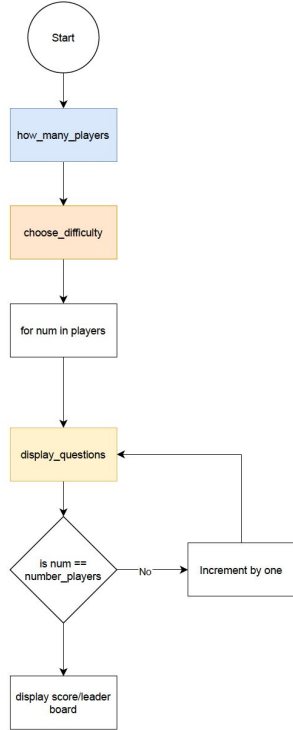
The code

```ruby
require_relative "./how_many_players"
require_relative "./choose_difficulty"
require_relative "./get_questions"
require_relative "./display_question"
require_relative "./display_leaderboard"
require_relative "./command_line_args"

require "colorize"
require "artii"

def greeting
  slant = Artii::Base.new :font => 'slant'
  roman = Artii::Base.new :font => 'roman'

  puts "\n"
  puts slant.asciify('Welcome to').colorize(:yellow)
  puts roman.asciify('Harry Potter').colorize(:cyan)
  puts slant.asciify('Trivia Game !').colorize(:yellow)
  puts "\n"
end

def instructions
  puts " -------------------------------------------------------------------- "
  puts " |  You are running a trivia game with a Harry Potter theme.         | "
  puts " |  It is a single or multi-players game.                            | "
  puts " |  You can choose between 3 difficulties:                           | "
  puts " |    Easy mode will be a multi-choice answers,                      | "
  puts " |    Medium mode will ask you to type your answer,                  | "
  puts " |    Hard mode will have a 10 seconds timer to type your answer.    | "
  puts " |  After each player answered all the questions, the leaderboard will be displayed.  | "
  puts " |  Good luck and have fun!                                          | "
  puts " -------------------------------------------------------------------- "
  puts "\n"
end

def trivia
  greeting

  instructions

  players = how_many_players
  difficulty = choose_difficulty
  questions = get_questions(5)

  players.each do |player|
    puts "\n"
    puts "*****************************************************************".colorize(:yellow)
    puts "Player #{player.name} it's your turn!".colorize(:yellow)
    puts "*****************************************************************".colorize(:yellow)
    puts "\n"

    questions.each do |question|
      display_question(question, difficulty, player)
    end
  end
```

```ruby
  display_leaderboard(players)

  def bye
    puts "\n"
    puts "I hope you had fun, see you soon!".colorize(:yellow)
```

```ruby
    end
    bye
  end

  trivia
```

```
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---------------------------------------------------------------
| You are running a trivia game with a Harry Potter theme.       |
| It is a single or multi-players game.                          |
| You can choose between 3 difficulties:                         |
|   Easy mode will be a multi-choice answers,                    |
|   Medium mode will ask you to type your answer,                |
|   Hard mode will have a 10 seconds timer to type your answer.  |
| After each player answered all the questions, the leaderboard will be displayed. |
| Good luck and have fun!                                        |
---------------------------------------------------------------

How many players? (Press ↑/↓ arrow to move and Enter to select)
▸ 1
  2
  3
  4
```

```
How many players? 3
Enter player 1 name? Harry
Enter player 2 name? Ron
Enter player 3 name? Hermione
```

```
Choose a difficulty? (Press ↑/↓ arrow to move and Enter to select)
▸ Easy
  Medium
  Hard
```

```
**********************************************
```
Player Ada it's your turn!
How are Dudley Dursley and Harry Potter related? Cousins
What is the name of the first Harry Potter book?
    Harry Potter and the chamber of secrets
    Harry Potter and the dragon's fire
    Harry Potter and the philosopher's stone
  ▸ Harry Potter and the sorcerer's stone

```
**********************************************
```
Player ada it's your turn!
What is Harry's Patronus? a stag
What is the name of the first Harry Potter book? harry potter and the philosopher's stone
How many languages have the Harry Potter books been translated into? 67

Player ada it's your turn!
Dumbledore is an old English word for what? Bumblebee
Timeout!
What is a Horcrux? someone's soul
Timeout!

```
*******************************************************************
Player Harry it's your turn!
*******************************************************************


What position does Harry play on his Quidditch team? (Press ↑/↓ arrow to move and Enter to select)
 ‣ Seeker
   Bludger
   Chaser
   Keeper
```

```
*******************************************************************
Player Ron it's your turn!
*******************************************************************


Which platform at King's Cross station does the Hogwarts Express leave from? 9 3/4
Who kills Professor Dumbledore? severus Snape
Who are Harry Potter's best friends? Hermione and Ron
How are Hogwarts students placed in their houses?
```

```
*******************************************************************
Player Hermione it's your turn!
*******************************************************************


What does the scar on Harry's head look like? ligthning
Timeout!
What house at Hogwarts does Harry belong to? gryffindor
What position does Harry play on his Quidditch team? seeker
```

```
*********************************************************************
                              LEADERBOARD
*********************************************************************

Congratulations Ron!
1. Player Ron has a total score of 30 points
2. Player Hermione has a total score of 20 points
3. Player Harray has a total score of 0 points

I hope you had fun, see you soon!
```

Review

Challenges: Ruby: the structure, where to start, how to apply ideas into coding

Ethical Issues: copying–getting inspiration by online solutions

Favourites parts: when the app worked

Thank you for listening