A **world championship** is generally an international competition open to elite competitors from around the world, representing their nations, and winning such an event will be considered highest or near highest achievement in the sport, game, or ability.such as **world champion in football** is a famous sports of world there are many champions such as five continents championships the most important is FIFA world cup

The **FIFA World Cup**, often simply called the **World Cup**, is an international association football competition contested by the senior [men's national teams](https://en.wikipedia.org/wiki/List_of_men%27s_national_association_football_teams" \o ") of the members of the *Fédération Internationale de Football Association* (FIFA), the sport's global governing body. The tournament has been held every four years since the inaugural tournament in 1930

It’s currently being held with 32 teams divide into 8 groups each one contains 4 teams which mean that the winning team will get 3 points ,one point for a draw and no point for the loser,the two first ones pass to round 16, after that the knockout is get started in draw situation passing to extra\_times if stay in draw they pass to penalties, and the winner move to the next round.

And to explain what we wrote above :

**Files organizations** :

Files we used :

* **‘Teams.bin’ :** this file contain the names of the teams, them goals and goals conseded, the fields in this file:
  + index of the team (id)
  + Name of team (name)
  + Goals of the team (Gls)
  + Goals conseded of the team (Gls\_con)
* **‘Groups.bin’ :**
  + Index of team (in ‘teams.bin’) (id)
  + points of team (points)
  + Team position in the group (index)
  + goals of the team in this group (Gls)
  + Goals conseded of the team in this group (Gls\_Con)
* **‘Matches.bin’ :**
  + Id of team 1 (team1: int)
  + Id of team 2 (team2: int)
  + Result of the team one (rlt1: int)
  + Result of the team two (rlt2: int)
  + Are the match played (isplay: bool)
  + The lunch time of the matchs (date: Date)
* **‘Knockout.bin’ :**
  + Position in the file (position: int)
  + Id of team 1 (team1: int)
  + Id of team 2 (team2: int)
  + Result of the team one (rlt1: int)
  + Result of the team two (rlt2: int)
  + Penalties of the team one (plt1)
  + Penalties of the team two (plt2)
  + Are the match played (isplay: bool)
  + The lunch time of the matchs (date: Date)