COMP 4958: Lab 4

In this lab, you are asked to implement a dynamic superviser for creating OTP servers based on the Mydb module (suitably modifiled). For this exercise, each Mydb worker (under the dynamic supervisor) does not need to retain its state after a crash. Recall that the dynamic supervisor is itself under the supervision of the application supervisor & that the dynamic supervisor is responsible for the Mydb workers it starts. Note also that the application supervisor needs to start the process registry as well.

The dynamic supervisor needs to provide functions to start & stop a Mydb worker:

```
start_db(dbname :: string) :: {:ok, pid}
stop_db(dbname :: string) :: :ok
```

Each Mydb worker provides the following functions:

```
store(dbname, key, value) => :ok
find(dbname, key) => {:ok, value} | {:error, :not_found}.
match(dbname, value) => [key1, ..., keyN].
```

Name your project mydb. The code for the dynamic supervisor should be in a module named Mydb.WorkerSupervisor & the code for a Mydb worker should be in a module named Mydb.Worker.

Provide a file of iex commands to start the dynamic supervisor & several Mydb workers. Also provide tests for these workers.