ỦY BAN NHÂN DÂN TP. HỒ CHÍ MINH

# TRƯỜNG ĐẠI HỌC SÀI GÒN

KHOA CÔNG NGHỆ THÔNG TIN

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4UfGRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA1OjE3IDIzOjA2OjIwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4NwAAkpIAAgAAAAM4NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**BÁO CÁO MÔN HỌC**

**NGÔN NGỮ LẬP TRÌNH PYTHON  
  
  
ĐỀ TÀI: XÂY DỰNG ỨNG DỤNG GAME FLAPPY BIRD**

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**TP. HỒ CHÍ MINH, THÁNG 5 NĂM 2022**

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**MỞ ĐẦU**

### Python là một ngôn ngữ lập trình được tạo ra bởi Guido Van Rossum. Python được thiết kế bắt đầu vào cuối những năm 1980 và được phát hành lần đầu tiên vào tháng 2 năm 1991. Python là ngôn ngữ có hình thức rất sáng sủa, cấu trúc rõ ràng, thuận tiện cho người mới học lập trình và là ngôn ngữ lập trình dễ học. Trong Python có chứa rất nhiều các thư viện hỗ trợ cho lập trình viên trong các lĩnh vực khác nhau như Trí tuệ nhân tạo (AI), khoa học dữ liệu (Data science), lập trình web, học máy (Machine Learning),… Số lượng các thư viện trong Python là rất phong phú và được ứng dụng rất nhiều trong thực tế, nên nhóm chúng em quyết định sử dụng thư viện Pygame trong Python để xây dựng ứng dụng game Flappy Bird.

**PHẦN 1: GIỚI THIỆU ĐỒ ÁN**

1. **Giới thiệu đề tài**

Flappy Bird (Chú chim vỗ cánh) là một tựa game giải trí do Nguyễn Hà Đông - một lập trình viên ở Hà Nội, Việt Nam phát triển và phát hành vào năm 2013. Cái tên Flappy Bird không còn xa lạ gì với tất cả mọi người, nội dung game phù hợp với nhiều lứa tuổi từ trẻ nhỏ đến người lớn. Flappy Bird thực sự trở thành một hiện tượng toàn cầu và là tựa game được tải về nhiểu nhất trên 2 kho ứng dụng App Store và Google Play.

Flappy Bird mang phong cách của những game từ thập niên 90. Cách chơi của trò này cũng đơn giản nhưng dễ gây ức chế cho người chơi, người chơi chỉ cần nhấn chạm vào màn hình để điều khiển chú chim Bird vượt qua các cột màu xanh. Tuy nhiên, việc điều khiển chú chim là một điều rất khó vì người chơi phải canh sao cho lúc nhấn trên màn hình phải đúng lúc, để tránh việc chim rơi xuống đất hoặc va phải các cột màu xanh. Trong đó, chỉ với một lần mắc lỗi là trò chơi sẽ kết thúc và người chơi phải quay lại từ đầu.

1. **Lý do chọn đề tài**

Trò chơi Flappy Bird đã bị chính tác giả **Nguyễn Hà Đông chính thức gỡ bỏ trò chơi Flappy Bird ra khỏi hai kho ứng dụng trực tuyến App Store và Google Play vào năm 2014. Tuy nhiên game Flappy Bird vẫn là một tựa game** được nhắc đến rất nhiều bởi giới truуền thông trong ᴠà ngoài Việt Nam vì nó đã từng làm mưa làm gió trên phạm vi toàn cầu và là tựa game được tải nhiều nhất trên hai kho ứng dụng trực tuyến trên trước khi nó bị khai tử. Cũng vì tựa game này có giao diện đơn giản không cầu kì, nên chúng em chọn đề tài này và cũng để có thể hiểu về thư viện pygame của ngôn ngữ Python mà chúng em sẽ ứng dụng để lập trình tựa game này.

1. **Đối tượng nghiên cứu  
   -** Game Flappy Bird.  
   - Thư viện pygame của ngôn ngữ Python.
2. **Mục tiêu nghiên cứu**

Tạo ra được game Flappy Bird, biết cách ứng dụng thư viện pygame trong việc làm game, trau dồi kỹ năng lập trình với ngôn ngữ python.

**PHẦN II: LÝ THUYẾT VỀ THƯ VIỆN PYGAME****1. Khái niệm Pygame** Pуgame là một thư ᴠiện của ngôn ngữ lập trình Pуthon ᴠà là một tập hợp các mô-đun Pуthon được thiết kế riêng để ᴠiết ᴠà lập trình trò chơi điện tử 2D. Pygame cũng đồng thời cung cấp các công cụ tích hợp hiệu ứng âm thanh cũng như nhạc nền cho game. Cuối cùng, các sự kiện điều khiển từ bàn phím, chuột cũng được được Pygame hỗ trợ một cách hiệu quả nhất.

**2**. **Mục đích ra đời của Pygame** Nhằm tạo ra một môi trường lập trình game, thoả sức sáng tạo, kích thích tư duy cho người lập trình.  
**3. Ưu điểm của Pygame**- Dễ hiểu, dễ học, dễ sử dụng và dễ cài đặt  
 -Có thể chạу trên nhiều nền tảng ᴠà hệ điều hành khác nhau  
 *-* Tiết kiệm thời gian lập trình game  
 -Khả năng ứng dụng rộng rãi

**PHẦN III: XÂY DỰNG ỨNG DỤNG**

**1. Mô tả giao diện của game**

- Giao diện bắt đầu game:

Text

Description automatically generated  
 - Giao diện khi vào game:

A screenshot of a video game

Description automatically generated

-Giao diện kết thúc game:   
**Text

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Hiện điểm số (Score) và kỷ lục (High score) mới sau khi kết thúc game.

**2. Các chức năng của game** - Nhấn phím cách (Backspace) trên bàn phím để bắt đầu game

**-** Điều khiển chú chim bằng phím cách, mỗi lần nhấn phím cách chú chim sẽ bay lên và sau đó rơi xuống  
 **-** Mỗi lần chim bay qua khoảng giữa cột màu xanh thành công thì điểm số sẽ tăng lên

- Lưu kỷ lục hiện tại của người chơi

**3. Chuẩn bị hình ảnh, âm thanh cho game**

**-** Thư mục FileGame chứa các thư mục assets, sound và file 04B\_19, source code game FlappyBird

- Thư mục assets chứa các hình ảnh của game:

**A picture containing graphical user interface

Description automatically generated**

**-** Thư mục sound chứa các âm thanh của game:

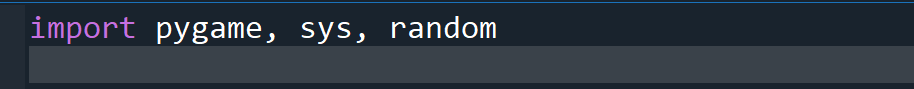
A picture containing text, businesscard, vector graphics, screenshot

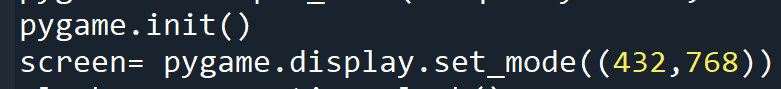
Description automatically generated

**-** File 04B\_19 dùng để đặt font chữ cho game

**4. Viết code xây dựng game Flappy Bird**

- Chèn thư viện pygame và tạo cửa sổ cho game





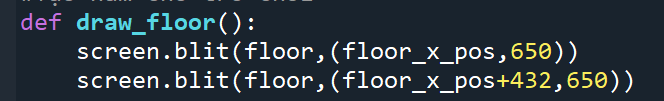
- Đặt fps cho game: A picture containing text

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- Chèn nền và sàn cho game:

Text

Description automatically generated



- Tạo chú chim FlappyBird:

Graphical user interface, text

Description automatically generated

- Tạo trọng lực:

Graphical user interface, text

Description automatically generated

- Tạo hệ thống cột làm chướng ngại vật:

Text

Description automatically generated

Text

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Text

Description automatically generated

- Tạo thời gian xuất hiện giữa các cột:

Text

Description automatically generated

- Hàm di chuyển các cột sang trái:

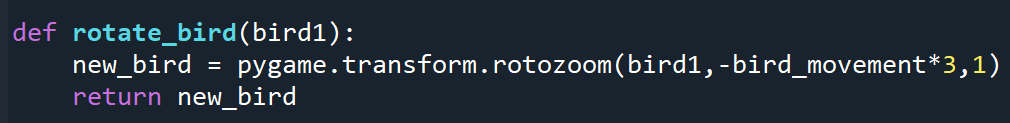
Text

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- Hàm xử lý va chạm của chim:

Text

Description automatically generated

- Hàm tạo hiệu ứng chuyển động chim gật gù khi bay:

- Tạo hiệu ứng vỗ cánh cho chim: có 3 trạng thái vỗ cánh xuống, giữa, lên tương ứng với 3 hình ảnh sau:

Graphical user interface

Description automatically generated with medium confidence

Đặt thời gian vỗ cánh cho chim:

Text

Description automatically generated

Ta tạo hàm bird\_animation để làm chậm quá trình chuyển đổi 3 hình ảnh vỗ cánh với nhau để chú chim vỗ cánh được mượt mà hơn:

Text

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- Đặt font chữ cho game:

Text, logo

Description automatically generated

- Tạo chức năng tính điểm cho game:

Khởi tạo 2 biến score và highscore đều có giá trị bằng 0

Graphical user interface

Description automatically generated

Hàm hiển thị score và highscore lên giao diện game:

Text

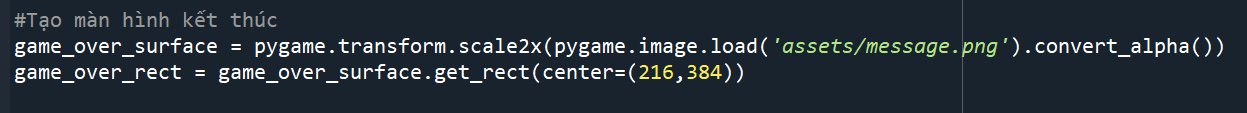
Description automatically generated with medium confidence

Hàm cập nhật lại highscore sau khi kết thúc game:

Text

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- Tạo màn hình kết thúc game:



- Chèn âm thanh cho game:

Text

Description automatically generated with medium confidence

+ flap\_sound: âm thanh vỗ cánh của chim khi người dùng nhấn phím backspace để điều khiển chim

+ hit\_sound: âm thanh va đập khi chim va chạm vào chướng ngại vật (các cột màu xanh)

+ score\_sound: âm thanh bíp ghi điểm khi chim vượt qua được 1 chướng ngại vật

- Vòng lặp chính của game:

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Text

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**KẾT LUẬN**

Mặc dù tựa game Flappy Bird đã chính thức bị gỡ bỏ từ lâu và để lại nhiều tiếc nuối khi tựa game này đang gây sốt trong cộng đồng. Tuy nhiên, với những kiến thức được trang bị ở trường, sự nghiên cứu, tìm tòi những tài liệu ở nhiều nguồn khác nhau, và cùng với sự hướng dẫn nhiệt tình của thầy Trịnh Tấn Đạt, chúng em đã xây dựng và tái hiện lại được tựa game đình đám một thời này. Qua quá trình xây dựng game FlappyBird, chúng em đã có thể hiểu thêm về cách biết ứng dụng thư viện pygame khi lập trình game, và cũng đã được trau dồi thêm về những kỹ năng lập trình với ngôn ngữ Python. Chúng em hi vọng những kĩ năng, kiến thức mà mình tiếp thu được ở trên sẽ giúp chúng em có thể tiến xa hơn trên con đường lập trình.

Mặc dù chúng em đã rất cố gắng trong việc nghiên cứu, tìm hiểu và thực hiện đồ án nhưng do thời gian có hạn và kinh nghiệm thực tế vẫn còn hạn chế nên đồ án và báo cáo không tránh khỏi những sai sót, chúng em kính mong sự góp ý từ thầy và các bạn.

Chúng em xin chân thành cảm ơn!

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**Link source code:** https://drive.google.com/drive/folders/1rrZSNFtPmlycFv9k20SBvhc8EANgg5Q7?usp=sharing