期末報告

班級、姓名、學號:電機一B 王子文 11050048A

題目名稱:尋找幸運狗狗

程式設計理念敘述:

這是一款機率性的翻卡遊戲,測試當下的幸運程度,哭臉代表沒有遇到,狗狗 代表幸運,狗狗越多越幸運,反之不幸運

Python 程式(附程式且需解釋程式):

```
import pygame
import sys
from pygame.locals import *
import numpy as np
class Card(pygame.sprite.Sprite):
    def __init__(self, x, y, card_state):
         self.image = pygame.image.load('C://Users//black//Desktop//期末作業
//14.jpg')
         self.image = pygame.transform.scale(self.image, (143, 138))
         width, height = self.image.get_size()
         self.rect = (x, y, width, height)
         self.card_state = card_state
    def update(self):
         if self.card_state == 2:
              self.image = pygame.image.load('C://Users//black//Desktop//期末作
業//12.jpg')
              self.image = pygame.transform.scale(self.image, (143, 138))
         if self.card state == 3:
              self.image = pygame.image.load('C://Users//black//Desktop//期末作
業//13.jpg')
              self.image = pygame.transform.scale(self.image, (143, 138))
```

```
class Game:
    def __init__(self):
         pygame.init()
         self.screen = pygame.display.set_mode((900, 600))
         pygame.display.set_caption("尋找幸運狗狗")
         self.clock = pygame.time.Clock()
         self.card_nums = 6
         self.points = self.all point()
         self.click list = []
         self.win_list = list(np.random.randint(0, 3, 6))
    def set bg(self):
         bg = pygame.image.load('C://Users//black//Desktop//期末作業//01.png')
         self.screen.blit(bg, (0, 0))
    def all_point(self):
         points = []
         for num in range(3 * 2):
              if num // 3 == 0:
                   x = num * 300 + 40
                   y = 45
              elif num // 3 == 1:
                   x = (num - 3) * 300 + 40
                   y = 305
              points.append((x, y))
         return points
    def set_card(self):
         for i, num in enumerate(self.points):
              x, y = num
              card state = 1
              # 卡片是否被點選
```

```
if i in self.click_list:
                    card state = 2
               if i in self.click_list and self.win_list[i] == 1:
                    card_state = 3
               card = Card(x, y, card_state)
               card.update()
               self.screen.blit(card.image, card.rect)
     def run(self):
          while True:
               self.clock.tick(60)
               for event in pygame.event.get():
                    if event.type == QUIT:
                         pygame.quit()
                         sys.exit()
                    if event.type == MOUSEBUTTONDOWN:
                         mosx, mosy = event.pos
                         self.mouse_card(mosx, mosy)
               self.set_bg()
               self.set_card()
               pygame.display.update()
     def mouse_card(self, mosx, mosy):
          for i, (x, y) in enumerate(self.points):
               if (mosx \geq x and mosx \leq (x + 250)) and (mosy \geq y and mosy \leq (y +
250)):
                    print("翻牌座標",i)
                    self.click_list.append(i)
if __name__ == '__main__':
     g = Game()
     g.run()
```

代碼解釋:

```
D:\python\期末作業\完成檔.py
完成檔.py X
        import pygame
        import sys
                                                                              .圖拉拉置
        from pygame.locals import
        import numpy as np
           def __init__(self, x, y, card_state):

self.image - pygame.
        class Card(pygame.sprite.Sprite):
               self.image = pygame.image.load('D://python//期末作業//14.jpg')
  self.image = pygame.transform.scale(self.image, (143, 138))
               width, height = self.image.get_size()
               self.rect = (x, y, width, height)
               self.card_state = card_state
            def update(self):
               if self. card state == 2:
                   self.image = pygame.image.load('D://python//期末作業//12.jpg')
                    self.image = pygame.transform.scale(self.image, (143, 138)).
  187
               if self.card_state == 3: 77= -3
                   self.image = pygame.image.load('D://python//期末作業//13.jpg')
                    self.image = pygame.transform.scale(self.image, (143, 138))
  21
22
23
                                                                         6圈在推武的大小
24
25
26
26
28
29
30
34
35
34
35
       class Game:
           def __init__(self):
               pygame.init()
                                                                                     松茅屬上
               self.screen = pygame.display.set_mode((900, 600))
               pygame.display.set_caption("尋找幸運狗狗")
               self.clock = pygame.time.Clock()
                                                       卡片矢野車
               self.card_nums = 6
               self.points = self.all_point()
               self.click_list = []
               self.win_list = list(np.random(randint(0, 3, 6))
  36/3/3/20
            def set_bg(self):
               bg = pygame.image.load('D://python//期末作業//01.png')
                                                                        继了長卡和位置
               self.screen.blit(bg, (0, 0))
            def all_point(self):
               points = []
                for num in range((3 * 2):
  4装
                   if num // 3 == \theta:
                       x = num * 300 + 40
                       y = 45
                   elif num // 3 == 1:
```

```
elif num // 3 == 1:
                        x = (num - 3) * 300 + 40
                        y = 305
                    points.append((x, y))
                return points
            def set_card(self):
                for i, num in enumerate(self.points):
                    x, y = num
                    card state = 1
                    if i in self.click_list:
                        card_state = 2
                    if i in self.click_list and self.win_list[i] == 1:
                        card_state = 3
                    card = Card(x, y, card_state)
                    card.update()
                    self.screen.blit(card.image, card.rect)
            def run(self):
                while True:
  self.clock.tick(60)
                    for event in pygame.event.get():
                        if event.type == QUIT:
                            pygame.quit()
                            sys.exit()
  81
                        if event.type == MOUSEBUTTONDOWN:
                            mosx, mosy = event.pos
   83 執
                            self.mouse_card(mosx, mosy) 👫
                    self.set_bg() 背景
                    self.set_card() 
                    pygame.display.update()
            def mouse_card(self, mosx, mosy):
    for i, (x, y) in enumerate(self.points):
                                                                       物件被默挚处置。
                    if (mosx >= x and mosx <= (x + 250)) and (mosy >= y and mosy <= (y + 250))
                        print("翻牌座標",i)一个自我檢查是否執行
                        self.click_list.append(i)
            name
                         main
            g = Game()
            g.run()

▼ 1 of 9 & ↑

1 of 9 & ↑

Aa ■

    card_state
```

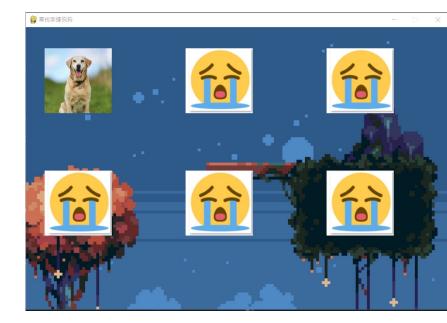
結果(截圖):

Step 1





Step 2



Step 3

參考文獻: https://www.gushiciku.cn/pl/a2M8/zh-tw

成品影片撥放: https://youtu.be/SSRG_2fJWW8

製作報告者參考文獻資料而製作成此一報告的比例有多少(0~100%):

45%

程式有 4 旅相似語法 但遊戲的玩法和元件完全不同了 包括介面也完全不同