```
import turtle #from pltw
import random
import time
screen = turtle.Screen()
screen.title("Matching Game")
screen.bgcolor("white")
screen.setup(width=800, height=600)
shape colors = ["paleturquoise", "salmon", "lightgreen", "thistle",
"navajowhite"] * 2
turtle shapes = ["circle", "square", "arrow", "classic", "triangle"] * 2
pairs = list(zip(shape colors, turtle shapes))
random.shuffle(pairs)
shape colors, turtle shapes = zip(*pairs)
shape colors = list(shape colors)
turtle shapes = list(turtle shapes)
state = [False] * 10
flipped cards = []
score = 0
start time = time.time()
positions = [(-300 + i * 150, 100) for i in range(5)] + [(-300 + i * 150,
-100) for i in range(5)]
cards = []
for pos in positions:
  card = turtle.Turtle()
  card.shape("square")
  card.color("lightpink")
  card.penup()
  card.goto(pos)
  card.shapesize(stretch wid=6, stretch len=5)
  cards.append(card)
score display = turtle.Turtle()
score display.hideturtle()
score display.color("black")
score display.penup()
```

```
score display.goto(0, 250)
score display.write(f"Score: {score}", align="center", font=("calibri",
22, "bold"))
def flip card 1():
  flip card(0)
def flip card 2():
  flip card(1)
def flip card 3():
  flip card(2)
def flip card 4():
def flip card_5():
   flip card(4)
def flip_card_6():
   flip card(5)
def flip_card_7():
   flip card(6)
def flip card 8():
   flip card(7)
def flip card 9():
   flip card(8)
def flip card 10():
   flip card(9)
def flip card(index):
  global score
  if state[index]:
  cards[index].color(shape colors[index])
  cards[index].shape(turtle shapes[index])
  state[index] = True
  flipped cards.append(index)
  if len(flipped cards) == 2:
       card1, card2 = flipped cards
       if shape colors[card1] == shape colors[card2] and
turtle_shapes[card1] == turtle_shapes[card2]:
           score += 2
```

```
score display.clear()
           score display.write(f"Score: {score}", align="center",
font=("calibri", 22, "bold"))
           screen.update()
          time.sleep(0.5)
           cards[card1].color("lightpink")
          cards[card1].shape("square")
           cards[card2].color("lightpink")
           cards[card2].shape("square")
           state[card1] = False
           state[card2] = False
       flipped cards.clear()
   if all(state):
       score display.goto(0, 0)
       score display.write("Game Over! Congratulations!", align="center",
font=("arial", 24, "bold"))
screen.listen()
screen.onkey(flip card 1, "1")
screen.onkey(flip card 2, "2")
screen.onkey(flip card 3, "3")
screen.onkey(flip card 4, "4")
screen.onkey(flip card 5, "5")
screen.onkey(flip card 6, "6")
screen.onkey(flip card 7, "7")
screen.onkey(flip card 8, "8")
screen.onkey(flip card 9, "9")
screen.onkey(flip card 10, "0")
screen.mainloop()
```