

A close-up photograph of a person's face. They are wearing a VR headset with a large, semi-transparent white number '2' displayed prominently in front of their eyes. The person has dark hair and is looking directly at the camera.

```
def game():
    x = random.randint(0, 101)
    y = random.randint(0, 101)
    correct_answer = x + y

    two_numbers = Label(root, bg='black', fg='hot pink', text=f"{x} + {y} = ")
    two_numbers.grid(row=4, column=0, padx=(100, 0), pady=20)

    user_answer_entry = Entry(root, width=15, highlightbackground='black')
    user_answer_entry.grid(row=6, column=0, padx=(100, 0))
    user_answer_entry.get()

    def check_answer():
        score_count = 1
        score_count_label = Label(root, bg='black', fg='hot pink', text=f"Your score: {score_count}")
        score_count_label.grid(row=1, column=1)

        if int(user_answer_entry.get()) == correct_answer:
            you_got_it_label = Label(root, bg='black', fg='cyan', text="You got it! 🎉")
            you_got_it_label.grid(row=8, column=0, padx=(100, 0), pady=20)
            score_count += 1
        else:
            you_got_it_label = Label(root, bg='black', fg='red', text="Wrong answer. ☹️")
            you_got_it_label.grid(row=9, column=0, padx=(100, 0))

    check_button = Button(root, highlightbackground='black', fg='hot pink', text="Check ↗", command=check_answer)
    check_button.grid(row=7, column=0, padx=(100, 0))

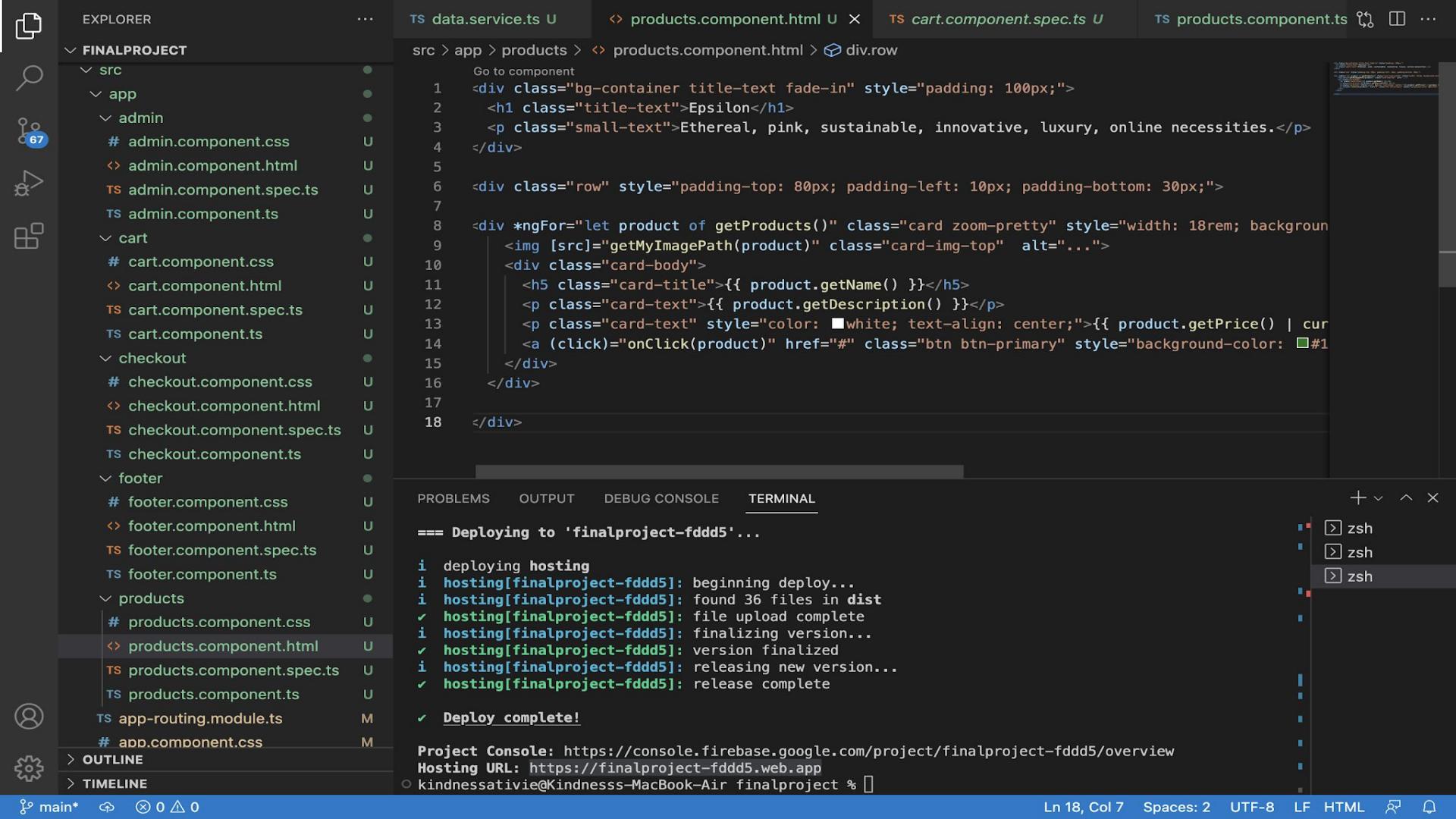
    root.mainloop()
```

Each Image is accompanied by its code in the following slide

# Epsilon

Ethereal, pink, sustainable, innovative, luxury, online necessities.





Bring it home



### Tropical Orange

Orange flowy top from the tropics

\$70.00

Bring it home



### UnGlove

Gloves for the unloveable

\$45.00

Bring it home

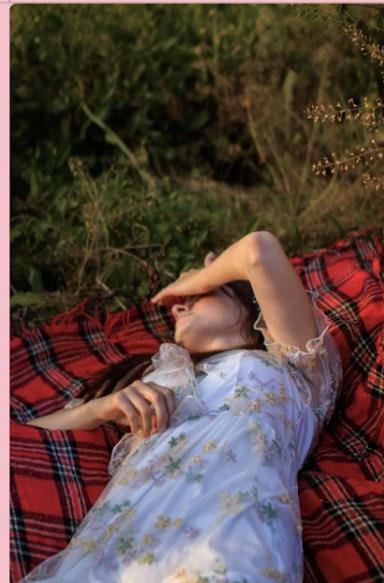


### Relaxer

Simple knit grass green dress for envy

\$77.00

Bring it home



### Whispy Poppies

Silky, white wrapped flower dress

\$149.00

Zoom effect on hover for "Whispy Poppies"

Bring it home



### Victorian Era

Snow lace umbrella from THE era

\$66.00



EXPLORER

FINALPROJECT

- CREATECOMPONENTS
- footer
  - # footer.component.css
  - <> footer.component.html
  - TS footer.component.spec.ts
  - TS footer.component.ts
- products
  - # products.component.css
  - <> products.component.html
  - TS products.component.spec.ts
  - TS products.component.ts
- TS app-routing.module.ts
- # app.component.css
- <> app.component.html
- TS app.component.spec.ts
- TS app.component.ts
- TS app.module.ts
- TS cart.ts
- TS data.service.spec.ts
- TS data.service.ts
- TS product.ts
- assets
  - images
- .gitkeep
- environments
  - TS environment.development.ts
  - TS environment.prod.ts
  - TS environment.ts
- favicon.ico

OUTLINE

TIMELINE

ts data.service.ts U × products.component.html U ts cart.component.spec.ts U ts products.component.ts U

src > app > ts data.service.ts > DataService

```
product9 = new Product(9, 'Captive', 'Captivating Teal Swimsuit', 49, 'fp-green-swimsuit.jpg')
product10 = new Product(10, 'High Life', 'Black & White Sophistication', 399, 'fp-bw-dress.jpg')
product11 = new Product(11, 'Tropical Orange', 'Orange flowy top from the tropics', 70, 'fp-oran
product12 = new Product(12, 'UnGlove', 'Gloves for the unloveable', 45, 'fp-gloves.jpg')
product13 = new Product(13, 'Relaxer', 'Simple knit grass green dress for envy', 77, 'fp-knit-gr
product14 = new Product(14, 'Whispy Poppies', 'Silky, white wrapped flower dress', 149, 'fp-whit
product15 = new Product(15, 'Victorian Era', 'Snow lace umbrella from THE era', 66, 'fp-umbrella
product16 = new Product(16, 'Pure Swim', 'Ivory swimwear for the ivory priced', 109, 'fp-white-s
product17 = new Product(17, 'Her Majesty', 'A boldy breathtaking blush dress', 164, 'fp-her-maj
product18 = new Product(18, 'Freely Mature', 'Modest, mature, magnificently free plaid cardigan'
product19 = new Product(19, 'Skirt Hurts', 'An enchanting pink skirt so dazzling it hurts', 88,
product20 = new Product(20, 'Milk Silk', 'As nourishing to the eyes as it is the wardrobe', 95,
```

productArray: Array<Product> = [];

getAllProducts() {  
 this.productArray = [];  
  
 this.productArray.push(this.product1);  
 this.productArray.push(this.product2);  
 this.productArray.push(this.product3);  
 this.productArray.push(this.product4);  
 this.productArray.push(this.product5);  
 this.productArray.push(this.product6);  
 this.productArray.push(this.product7);  
 this.productArray.push(this.product8);  
 this.productArray.push(this.product9);  
 this.productArray.push(this.product10);  
}

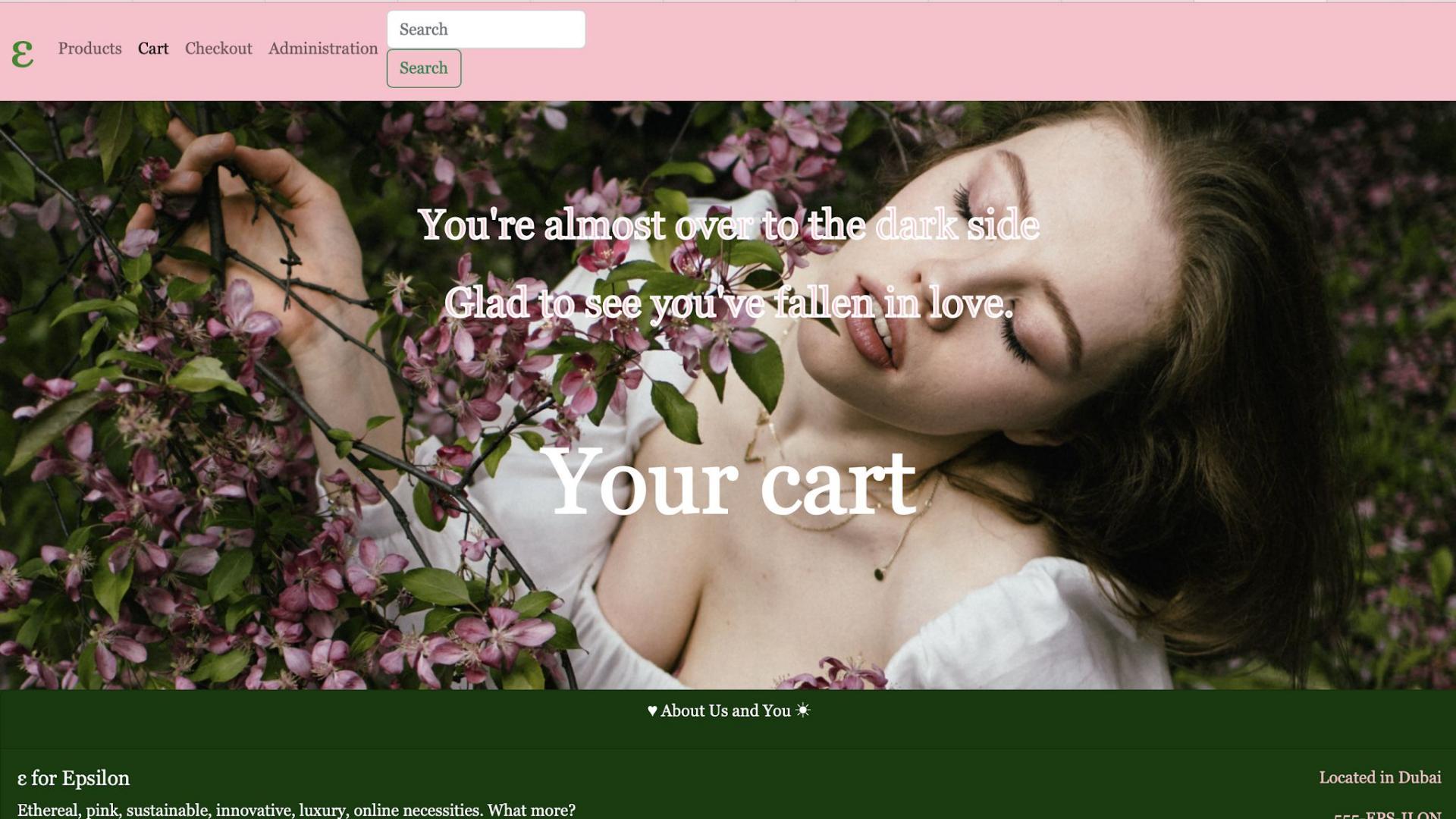
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
i hosting[finalproject-fddd5]: releasing new version...
✓ hosting[finalproject-fddd5]: release complete
✓ Deploy complete!
```

Project Console: https://console.firebaseio.google.com/project/finalproject-fddd5/overview  
Hosting URL: https://finalproject-fddd5.web.app  
kindnessativie@Kindnessss-MacBook-Air finalproject %

Ln 29, Col 1 Spaces: 2 UTF-8 LF {} TypeScript

zsh zsh zsh



You're almost over to the dark side  
Glad to see you've fallen in love.

# Your cart

♥ About Us and You ✨



\$129.00 qty: ①

Modest, mature, magnificently free plaid cardigan

[Remove her](#)

[Checkout](#)

▼ About Us and You ✨

e for Epsilon

Ethereal, pink, sustainable, innovative, luxury, online necessities. What more?

Located in Dubai

555-EPS-ILON

EXPLORER

FINALPROJECT

- > .angular
- > .firebase
- > .vscode
- > dist
- > node\_modules
- src
  - app
    - admin
      - # admin.component.css
      - ▷ admin.component.html
      - TS admin.component.spec.ts
      - TS admin.component.ts
    - cart
      - # cart.component.css
      - ▷ cart.component.html
      - TS cart.component.spec.ts
      - TS cart.component.ts
    - checkout
      - # checkout.component.css
      - ▷ checkout.component.html
      - TS checkout.component.spec.ts
      - TS checkout.component.ts
    - footer
      - # footer.component.css
      - ▷ footer.component.html
      - TS footer.component.spec.ts
      - TS footer.component.ts
    - products
      - # products.component.css

...

cart.component.html U X app.module.ts M environment.ts U environment.prod.ts U envir

src > app > cart > cart.component.html > div.card.fade-in-section.is-visible.fade-in > a.btn.btn-primary

Go to component

```
1  <div class="bg-container-footer title-text text-stroke fade-in">
2    <p class="medium-text">You're almost over to the dark side</p>
3    <p class="small-text" style="font-size: 40px; color: #pink">Glad to see you've fallen in love</p>
4    <p class="title-text">Your cart</p>
5    </div>
6
7
8    <div *ngFor="let product of getProducts()" class="card fade-in-section.is-visible fade-in">
9      <h5 class="card-header" style="background-color: #pink;">{{product.getName()}}</h5>
10     <div class="card-body">
11       <div style="padding-left: 150px;">
12         <img [src]="getMyImagePath(product)" style="zoom: 10%; border-style: groove; border-color: #pink;">
13       </div>
14       <h5 class="card-title" style="text-align: right; padding-right: 150px; border-style: groove; border-color: #pink;">{{product.getName()}}</h5>
15       <p class="card-text" style="padding-left: 150px;">{{product.getDescription()}}</p>
16       <div style="text-align: right; padding-right: 150px;">
17         <a href="#" class="btn btn-primary" style="text-align: right; background-color: #palevioletred; color: black;">View Details</a>
18       </div>
19     </div>
20   </div>
21   <a href="Checkout" routerLink="Checkout" routerLinkActive="active" [routerLinkActiveOptions]={`${exact: true}`}>
22     <button class="btn btn-primary" style="text-align: center; background-color: #palevioletred; color: black;">Checkout</button>
23   </a>
24
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

i hosting[finalproject-fddd5]: releasing new version...  
✓ hosting[finalproject-fddd5]: release complete  
✓ Deploy complete!

Project Console: https://console.firebaseio.google.com/project/finalproject-fddd5/overview  
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kindnessativie@Kindnessss-MacBook-Air finalproject %

main\* ↻ ⌂ 0 △ 0

Ln 20, Col 32 Spaces: 2 UTF-8 LF HTML

zsh zsh zsh



# Epsilon

## Checkout ❤

Shipping Address

First Name

Last Name

Street Address

Apt, Suite, Building (Optional)

Zip Code

City, State

Country/Region

Billing Address

Use my shipping address.

First Name

Last Name

Street Address

Apt, Suite, Building (Optional)

Zip Code

City, State

Country/Region

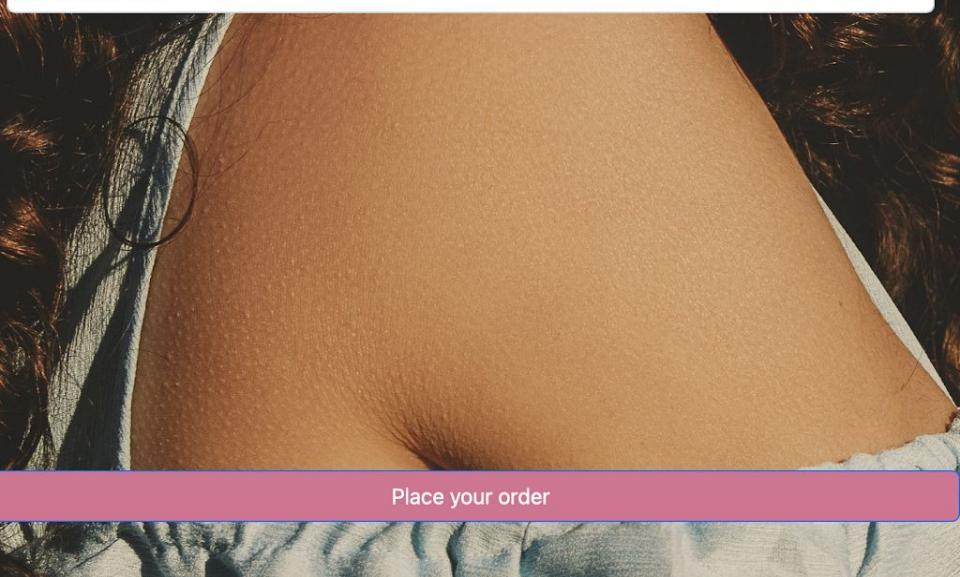
Zoom effect on hover for “Street Address”

Apt, Suite, Building (Optional)

Zip Code

City, State

Country/Region



Place your order

Street Address

Apt, Suite, Building (Optional)

Zip Code

City, State

Country/Region

### Credit Card

Enter your credit card details

Name

Enter your name

Credit Card Number



0000 0000 0000 0000

Month

Month ▾

Year

ie. 2025

CVV/CVC

123

♥ About Us and You \*

ε for Epsilon

Ethereal, pink, sustainable, innovative, luxury, online necessities. What more?

Inspired by the Holy Spirit. Made by Kindness.

Located in Dubai

555-EPS-ILON

EXPLORER

FINALPROJECT

- .angular
- .firebase
- .vscode
- dist
- node\_modules
- src
  - app
    - admin
      - # admin.component.css
      - <> admin.component.html
      - TS admin.component.spec.ts
      - TS admin.component.ts
    - cart
      - # cart.component.css
      - <> cart.component.html
      - TS cart.component.spec.ts
      - TS cart.component.ts
    - checkout
      - # checkout.component.css
      - <> checkout.component.html
      - TS checkout.component.spec.ts
      - TS checkout.component.ts
    - footer
      - # footer.component.css
      - <> footer.component.html
      - TS footer.component.spec.ts
      - TS footer.component.ts
    - products
      - # products.component.css
  - OUTLINE
  - TIMELINE

... <> checkout.component.html U X # checkout.component.css U # cart.component.css U <> app.component. L ...

Go to component

```
1  <div class="bg-container-checkout fade-in">
2      <p class="title-text" >Epsilon</p>
3      <p class="medium-text" style="padding: 10px;">Checkout &#9829;</p>
4      <div class="row">
5          <div class="col" style="padding-left: 10px;">
6              <p style="color: black; white">Shipping Address</p>
7              <div class="input-group padding-small zoom-pretty-2">
8                  <input type="text" class="form-control" placeholder="First Name" aria-label="Recipient First Name" required="required" name="first-name">
9              </div>
10             <div class="input-group padding-small zoom-pretty-2">
11                 <input type="text" class="form-control" placeholder="Last Name" aria-label="Recipient Last Name" required="required" name="last-name">
12             </div>
13             <div class="input-group padding-small zoom-pretty-2">
14                 <input type="text" class="form-control" placeholder="Street Address" aria-label="Recipient Street Address" required="required" name="street-address">
15             </div>
16             <div class="input-group padding-small zoom-pretty-2">
17                 <input type="text" class="form-control" placeholder="Apt, Suite, Building (Optional)" aria-label="Recipient Apt, Suite, Building (Optional)" name="apt-suite-building">
18             </div>
19             <div class="row padding-small">
20                 <div class="col">
21                     <div class="input-group zoom-pretty-2">
22                         <input type="text" class="form-control" placeholder="Zip Code" aria-label="Recipient Zip Code" required="required" name="zip-code">
23                     </div>
24                 </div>
25                 <div class="col">
26                     <div class="input-group zoom-pretty-2">
27                         <input type="text" class="form-control" placeholder="City, State" aria-label="Recipient City, State" required="required" name="city-state">

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
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✓ Deploy complete!
```

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kindnessativie@Kindnessss-MacBook-Air finalproject %

Ln 25, Col 34 Spaces: 4 UTF-8 LF HTML

zsh zsh zsh



# Login

Please enter email and password

Email address

Password

Login

Zoom effect on hover for “Email Address”

♥ About Us and You ✨



HelloWorld save2.py

Project HelloWorld ~/PycharmProjects/HelloWorld

shipping.py hangman.py app.py savemystuff.py save2.py

clear

0 results

62 3

Notifications

```
186 elif upper_reaction_choice == 'S':  
187     print(share_picture())  
188 elif upper_reaction_choice == 'C':  
189     print(comment_on_picture())  
190  
191 if picture[index] == len(picture) - 1:  
192     print('Your feed is empty. Come back soon for more posts.')  
193     break  
194 else:  
195     while next_picture == 'Y':
```

Run: app

```
*SABBY209's post 11:09pm*  
😊🌙  
caption: Ready for bed lol.  
-----  
likes: 0 ❤️  
comments:  
  
*** Reactions ***  
❤️ like(L) | 📸 share(S) | 🗣 comment(C)  
  
Choose an emoji for your profile: 😊  
😊 My comment: So cool.  
  
*SABBY209's post 11:09pm*  
😊🌙  
caption: Ready for bed lol.  
-----  
likes: 0 ❤️  
comments:  
  
😊 says: So cool.
```

Python Instagram

HelloWorld app.py

Project HelloWorld ~/PycharmProjects/HelloWorld

shipping.py hangman.py app.py savemystuff.py save2.py

clear 0 results ▲ 36 Notifications

```
1 class Employee: #create class (blueprint)
2     def __init__(self, employeeID, firstName, lastName, department): #use def init() to set the characteristic of your object
3         self.employeeID = employeeID #think object1.this = this value. So if I call object1.this I want it to display this value
4         self.firstName = firstName
5         self.lastName = lastName
6         self.department = department
7
8
9     def __str__(self):
10        return f'Employee with ID {self.employeeID} is {self.firstName} {self.lastName} and works in {self.department}' #when
11
12
13     def name_tag(self):
14        return f'Hi my name is {self.firstName} {self.lastName}.' #another way to format your object - B
15
16
17 emp1 = Employee(1, 'Barbara', 'Smith', 'Math') #setting up an object (ref A)
18 emp2 = Employee(2, 'Rahim', 'Rash', 'IT')
19
20
```

External Libraries < Python 3.11 (HelloWorld) > /Users/kindnessativie/PycharmProjects/HelloWorld/venv/lib-dynload

Binary Skeletons Extended Definitions

Run: app

```
/Users/kindnessativie/PycharmProjects/HelloWorld/venv/bin/python /Users/kindnessativie/PycharmProjects/HelloWorld/app.py
Hi my name is Barbara Smith.
Hi my name is Rahim Rash.
1
Math
Employee with ID 1 is Barbara Smith and works in Math
Employee with ID 2 is Rahim Rash and works in IT
Process finished with exit code 0
```

Employee management system

Version Control Find Run Python Packages TODO Python Console Problems Terminal Services

Installing packages failed: Installing packages: error occurred. Details... (4/16/23, 8:24 PM)

16:1 LF UTF-8 4 spaces Python 3.11 (HelloWorld)

HelloWorld app.py

Project

HelloWorld ~/PycharmProjects/HelloWorld  
  └─ ecommerce  
    ├─ \_\_init\_\_.py  
    └─ shipping.py  
  └─ venv  
    ├─ app.py  
    ├─ converters.py  
    ├─ hangman.py  
    └─ main.py  
  └─ save2.py  
  └─ savemystuff.py  
  └─ tkinterstuff.py  
  └─ transactions.xlsx  
  └─ transactions2.xlsx  
  └─ ~\$transactions.xlsx  
External Libraries

shipping.py hangman.py app.py savemystuff.py save2.py

clear  
60     def get\_chosen\_character(chosen\_character):  
61         chosen\_character = chosen\_character  
62  
63  
64     def build\_or\_select():  
65         char\_selection\_key = input('Build Your Own Character (B)? Or select number to choose a character: ')  
66         if char\_selection\_key.upper() == 'B':  
67             charx = Character(input('Choose your emojis: '), input('Your bussin name: '), 0, 'Never Played', 0)  
68             game\_characters.append(charx)  
69             display\_characters()  
70             build\_or\_select()  
71         elif char\_selection\_key >= '1' or char\_selection\_key <= str(len(game\_characters)):  
72             chosen\_character(char\_selection\_key)  
73             routing()  
74         else:  
75             print('00ps. :(')

Notifications

▲ 4 ▲ 81 ✘ 3

Run: app

/Users/kindnessativie/PycharmProjects/HelloWorld/venv/bin/python /Users/kindnessativie/PycharmProjects/HelloWorld/app.py

INSANE GUESSING GAME !!  
May the highest level win.  
Use different characters to play against your friends.

I = Instructions  
P = Play Game  
S = Scores  
C = Choose new character

>  
c

1 |\*\*\*Bobo The UnBEARable 🐻\*\*\*| HIGH SCORE: 0 NUMBER OF PLAYS: 0 LAST PLAYED: Never played  
2 |\*\*\*Unbothered 😴😴\*\*\*| HIGH SCORE: 0 NUMBER OF PLAYS: 0 LAST PLAYED: Never Played  
3 |\*\*\*Queen 🎉👑\*\*\*| HIGH SCORE: 0 NUMBER OF PLAYS: 0 LAST PLAYED: Never Played

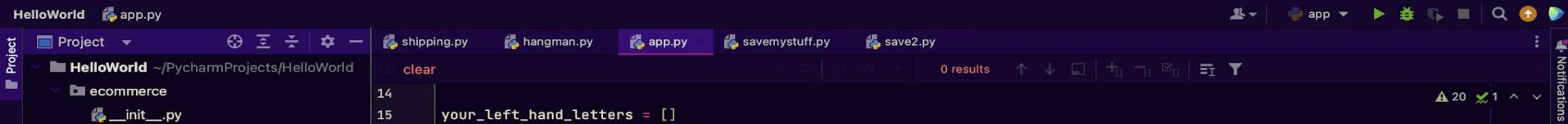
Build Your Own Character (B)? Or select number to choose a character: b  
Choose your emojis:

Guessing game with routing and characters

Version Control Find Run Python Packages TODO Python Console Problems Terminal Services

Installing packages failed: Installing packages: error occurred. Details... (4/16/23, 8:24 PM)

22:21 LF UTF-8 4 spaces Python 3.11 (HelloWorld)

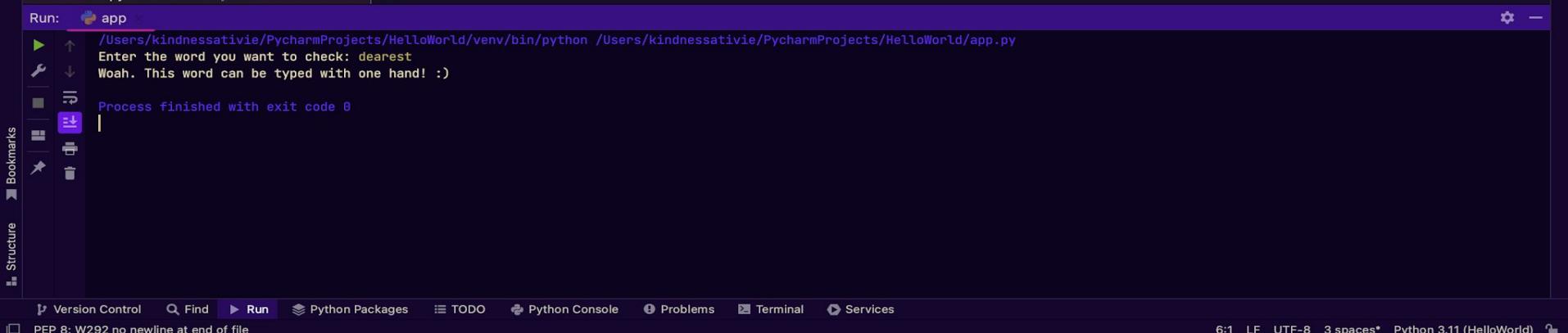


```
shipping.py hangman.py app.py savemystuff.py save2.py
Project clear 0 results ▲ 20 ✘ 1 ^ v Notifications

HelloWorld ~/PycharmProjects/HelloWorld
  ecommerce
    __init__.py
    shipping.py
  venv
    app.py
    converters.py
    hangman.py
    main.py
    save2.py
    savemystuff.py
    tkinterstuff.py
    transactions.xlsx
    transactions2.xlsx
    ~$transactions.xlsx
External Libraries
  < Python 3.11 (HelloWorld) > /Users/kindnessativie
    Binary Skeletons
    Extended Definitions
    lib-dynload
    python3.11 library root

Run: app
14
15     your_left_hand_letters = []
16     your_right_hand_letters = []
17
18
19     for letter in word:
20         if letter in left_hand_keys:
21             left_hand_check = True
22             your_left_hand_letters.append(letter)
23         if letter in right_hand_keys:
24             right_hand_check = True
25             your_right_hand_letters.append(letter)
26
27
28     if left_hand_check == True and right_hand_check == True:
29         print("Can't be typed with one hand. :(")
30         print(' ')
31         print('Your left hand letters: ')
32         for item in your_left_hand_letters:
33             print(item, end=', ')
34
35 else
```

Left or right hand keys



## joker or queen

You are playing a card game.  
The dealer will display two cards face down.:



There is one queen and one joker.  
You must guess which card is the queen.  
If it is the queen. Your points increase.  
If it is the joker you lose.

I'm ready to play.

Tkinter GUI Python Joker or Queen Game

## joker or queen

'★ Choose the queen. ★'



HelloWorld app.py

Project

HelloWorld ~/PycharmProjects/HelloWorld

- ecommerce
  - \_\_init\_\_.py
  - shipping.py
- venv
  - app.py
  - converters.py
  - hangman.py
  - main.py
  - save2.py
  - savemystuff.py
  - tkinterstuff.py
  - transactions.xlsx
  - transactions2.xlsx
  - ~\$transactions.xlsx
- External Libraries
  - < Python 3.11 (HelloWorld) > /Users/kindnessativie
  - Binary Skeletons
  - Extended Definitions
  - lib-dynload
  - python3.11 library root
  - site-packages library root
  - Typeshed Stubs
- Scratches and Consoles

Bookmarks

Structure

Run: app

/Users/kindnessativie/PycharmProjects/HelloWorld/venv/bin/python /Users/kindnessativie/PycharmProjects/HelloWorld/app.py

PEP 8: E303 too many blank lines (3). PEP 8: W292 no newline at end of file.

clear

```
def display_game():
    choose_the_queen_label = Label(root, fg='hot pink', text="Choose the queen.", bg='black')
    choose_the_queen_label.grid(row=2, column=0, columnspan=2, pady=50)

    card_left_button = Button(root, bg='#0052cc', fg='hot pink', activeforeground='cyan',
                             highlightbackground='black', text='Q', command=result_left)
    card_left_button['font'] = myFont
    card_left_button.grid(row=3, column=0, padx=50)

    card_right_button = Button(root, bg='#0052cc', fg='cyan', activeforeground='hot pink',
                             highlightbackground='black', text='Q', command=result_right)
    card_right_button['font'] = myFont
    card_right_button.grid(row=3, column=1)

    # mechanics of the card
    queen_or_joker_options = ['queen', 'joker']

    card_value_left = random.choice(queen_or_joker_options)
    card_value_right = ''
    if card_value_left == 'queen':
        card_value_right = 'joker'
    elif card_value_left == 'joker':
        card_value_right = 'queen'

    def result_left():
        card_value_left_print = Label(root, text=f'{card_value_left}')
        card_value_left_print.grid(row=5, column=0)
        result_label = Label(root, text="I am the left card", bg='black', fg='white')
        result_label.grid(row=4, column=0)
```

Notification



# your score generator

If you get a score less than 200: You need help. 😔

If you get a score between 200 and 700: You're doing good. 😊

If you get a score between 700 and 1000: You're amazing. 🤴😍

Hit this to generate score. 00

Your score is: 419! You're doing good. 😊

Project

PycharmProjects HelloWorld

shipping.py hangman.py app.py savemystuff.py save2.py

clear 0 results ▲ 20 ▾ Notifications

My second tkinter thingy vvvv

from tkinter import \*  
import random

root = Tk(className='Your score generator')  
root.configure(bg='black')  
root.geometry('500x200')

instructions\_label = Label(root, bg='black', fg='yellow', text='''  
If you get a score less than 200: You need help. 😞  
If you get a score between 200 and 700: You're doing good. 😊  
If you get a score between 700 and 1000: You're amazing. 🎉😊  
'''')  
instructions\_label.pack()

def generate\_score():  
 score = random.randint(0, 1001)  
 if score < 200:  
 my\_result\_label = Label(root, bg='black', fg='#5eeb34', text=f'Your score is: {score}! You need help. 😞')  
 elif score >= 200 and score < 700:  
 my\_result\_label = Label(root, bg='black', fg='cyan', text=f'Your score is: {score}! You're doing good. 😊')  
 elif score >= 700 and score < 1001:  
 my\_result\_label = Label(root, bg='black', fg='hot pink', text=f'Your score is: {score}! You're amazing. 🎉😊')  
 else:  
 my\_result\_label = Label(root, text=f'Uh oh. Something went wrong.')  
my\_result\_label.pack()

External Libraries

< Python 3.11 (HelloWorld) > /Users/kindnessativie

Binary Skeletons  
Extended Definitions  
lib-dynload  
python3.11 library root  
site-packages library root  
Typeshed Stubs

Scratches and Consoles

Run: app

/Users/kindnessativie/PycharmProjects>HelloWorld/venv/bin/python /Users/kindnessativie/PycharmProjects>HelloWorld/app.py

Version Control Find Run Python Packages TODO Python Console Problems Terminal Services

Installing packages failed: Installing packages: error occurred. Details... (4/16/23, 8:24 PM)

2:1 LF UTF-8 4 spaces Python 3.11 (HelloWorld)