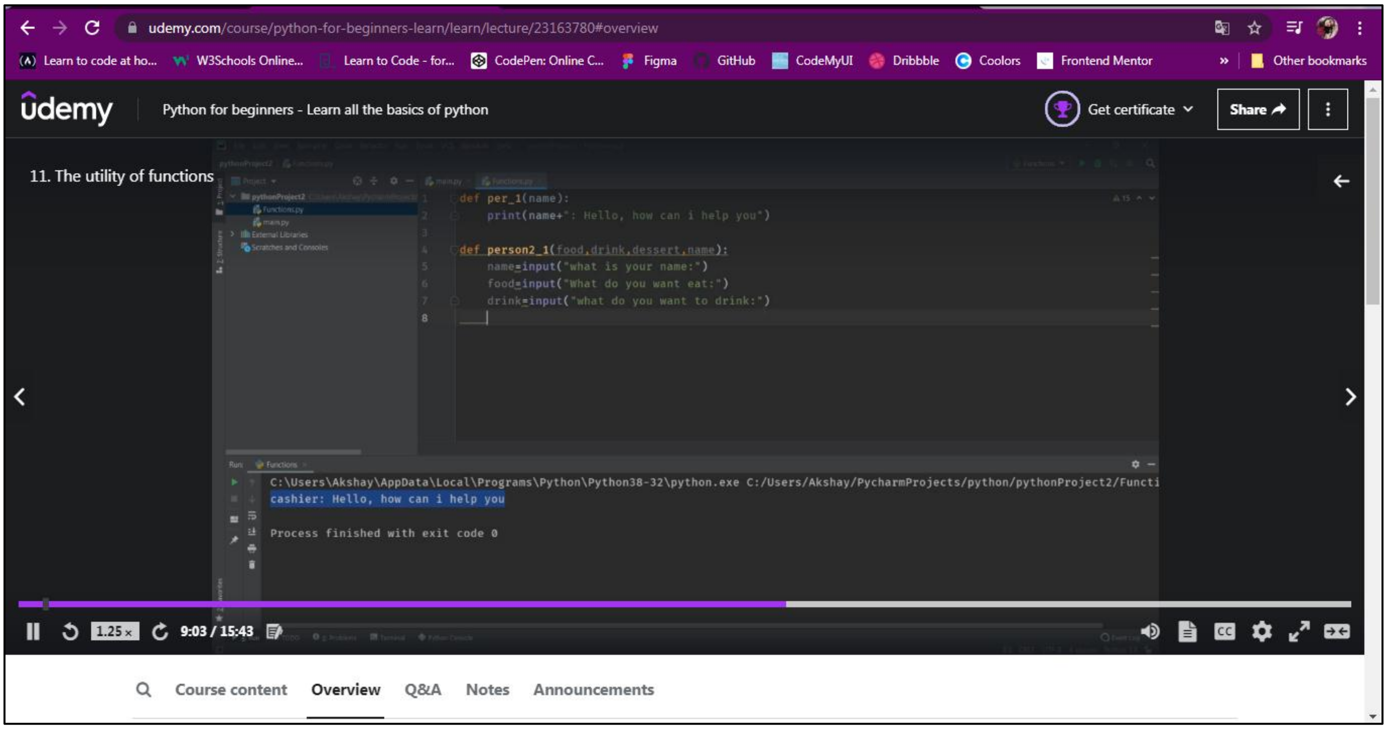
Python for beginners – Learn all the basics of Python

In taking python for beginners, I learned how to use Python3, understand complex functions in python, and how we can use python daily. When can we use python? Python is used to create games and websites, AI and machine learning, data analytics, and applications.

The first thing I learned in this course is the basic syntax of python. The input() function reads a line from the input which usually comes from the user. The print() function prints the specified message to the screen. Now, if I want to print the input I can write print(input()). For example, print(input("how are you today?")), once we run this program it will output how are you today? in the terminal because of the print function, and we can answer the output because of the input function where it asks us the user to input something. To put the value of an input to a variable, we can write it as var= input(), and we can print that by putting the name of our variable inside the parenthesis of the print function, say print(var). There are three steps in initializing variables in python. First is the variable name, and then assign the variable name using the equal sign, and lastly by writing the value of the variable. Also in python, we can assign values to variables in one line, for example, sarah, bob, mike = 16,17,18 instead of doing it in every new line like sarah= 16 bob=17 mike=18. There's also called multiple assignment where your assign value to a variable like this a = b = c = 17.

The next thing I learned is the manipulation of strings and numbers. To print the string in uppercase, we can use .upper(). For example, the variable sentence has a value of hello there, the print(sentence.upper(sentence)) will output HELLO THERE. To turn it in all lowercase we can use .lower(). The syntax .replace() replaces a word in the variable. The .index() searches for a given element from the start of the list and returns the lowest index where the element appears. In number manipulation, we can use max() to return the item with the highest value, or the item with the highest value in an iterable, and the min() finds the item with lowest value. Meanwhile, the str() function converts values to a string form so they can be combined with other strings. The abs() function return the absolute value of a number, this will remove the negative sign of the number. In python, the function blocks begin with the keyword def followed by the function name and parentheses. And like some programming languages, we can pass many parameters in a function in python, for example, def person2_1(food, drink, dessert, name). Also, in python, there's a class of data structure that can store one or more objects or values called list or tuple. The difference between the two is that The list is dynamic or can be changed, while the tuple cannot. The next thing I learned about is the dictionary in python which is a collection of key-value pairs, and using dictionary is useful as it is more efficient to use to lookup of elements because it takes less time to traverse in the dictionary than a list. To conclude the python course, python language is a code easy. Its syntax is concise and easy to use and learn for beginners like me. And aside from its simple syntax, it also has tons of libraries and frameworks thus making it popular for developers.



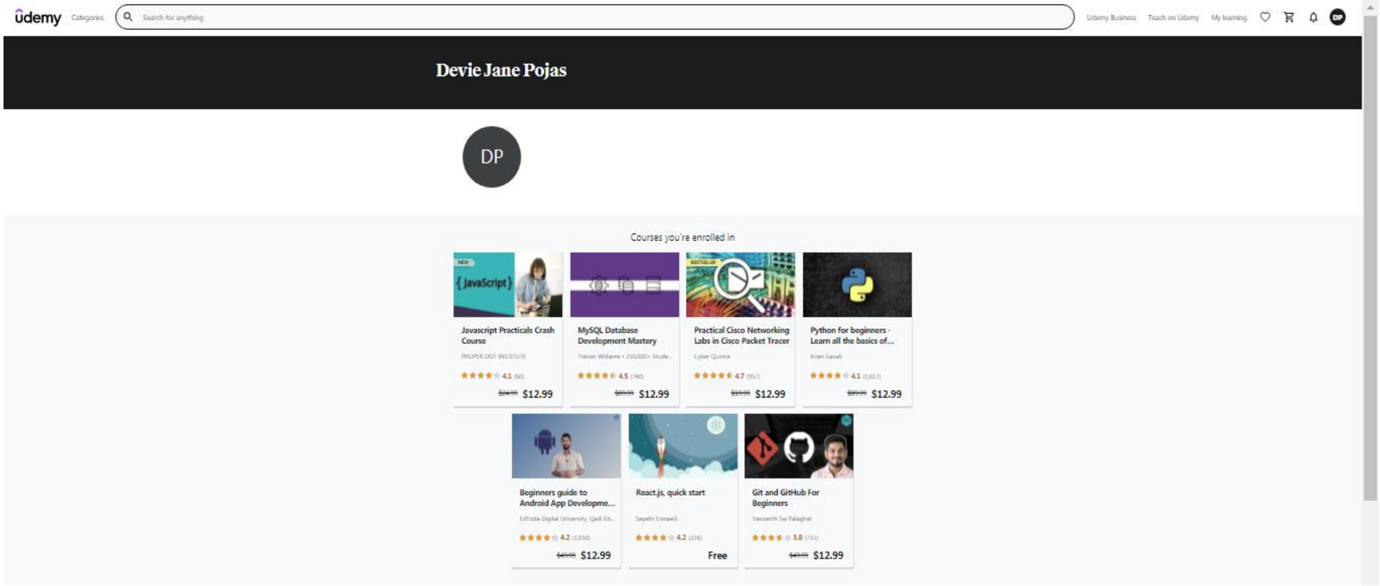
```
def per_1(name):
    print(name+": Hello, how can i help you")

def person2_1(food,drink,dessert,name):
    name=input("what is your name:")
    food=input("What do you want eat:")
    drink=input("what do you want to drink:")
```

```
C:\Users\Akshay\AppData\Local\Programs\Python\Python38-32\python.exe C:/Users/Akshay/PycharmProjects/python/pythonProject2/Functi
cashier: Hello, how can i help you

Process finished with exit code 0
```

Attending Python for Beginners – Learn all the basics of Python course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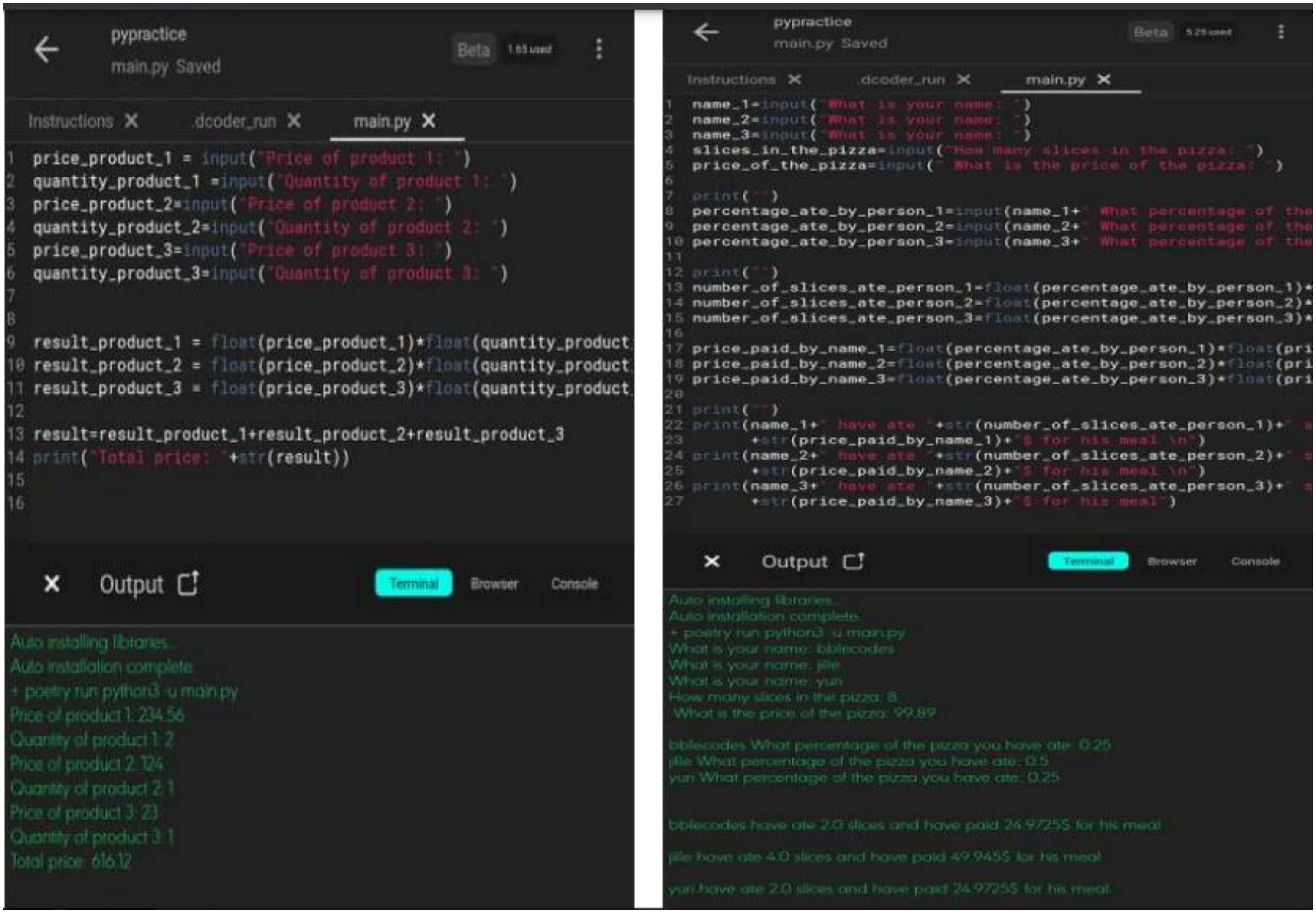


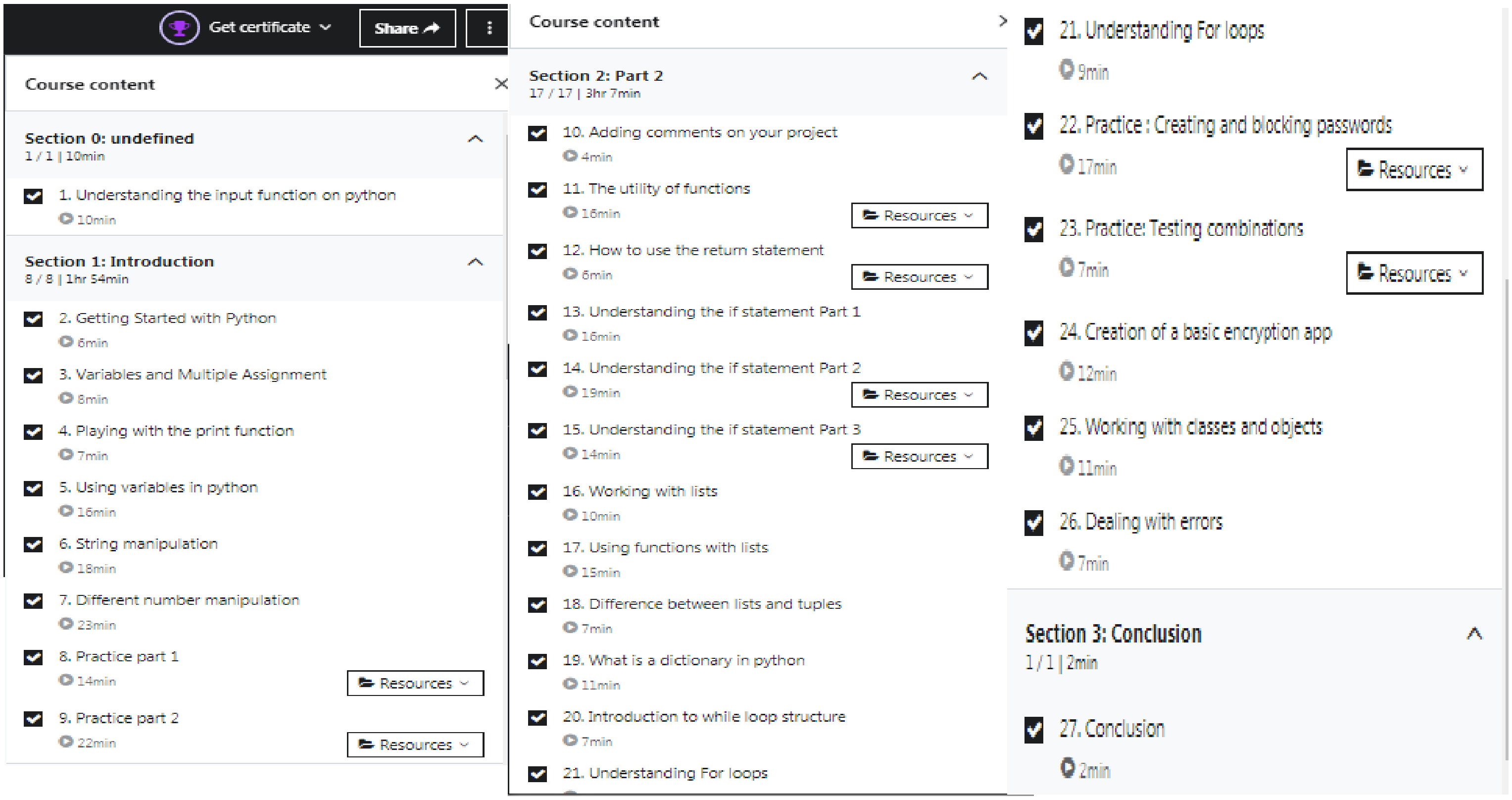
```
price_product_1 = input("Price of product 1: ")
quantity_product_1 =input("Quantity of product 1: ")
price_product_2=input("Price of product 2: ")
quantity_product_2=input("Quantity of product 2: ")
price_product_3=input("Price of product 3: ")
quantity_product_3=input("Quantity of product 3: ")


result_product_1 = float(price_product_1)*float(quantity_product
result_product_2 = float(price_product_2)*float(quantity_product
result_product_3 = float(price_product_3)*float(quantity_product

result=result_product_1+result_product_2+result_product_3
print("Total price: "+str(result))
```

```
Auto installing libraries...
Auto installation complete.
+ poetry run python3 -u main.py
Price of product 1: 234.56
Quantity of product 1: 2
Price of product 2: 124
Quantity of product 2: 1
Price of product 3: 23
Quantity of product 3: 1
Total price: 616.12
```

```
name_1=input("What is your name: ")
name_2=input("What is your name: ")
name_3=input("What is your name: ")
slices_in_the_pizza=input("How many slices in the pizza: ")
price_of_the_pizza=input(" What is the price of the pizza: ")

print("")
percentage_ate_by_person_1=input(name_1+" What percentage of the
percentage_ate_by_person_2=input(name_2+" What percentage of the
percentage_ate_by_person_3=input(name_3+" What percentage of the

print("")
number_of_slices_ate_person_1=float(percentage_ate_by_person_1)*
number_of_slices_ate_person_2=float(percentage_ate_by_person_2)*
number_of_slices_ate_person_3=float(percentage_ate_by_person_3)*

price_paid_by_name_1=float(percentage_ate_by_person_1)*float(pri
price_paid_by_name_2=float(percentage_ate_by_person_2)*float(pri
price_paid_by_name_3=float(percentage_ate_by_person_3)*float(pri

print("")
print(name_1+" have ate "+str(number_of_slices_ate_person_1)+" s
      +str(price_paid_by_name_1)+"$ for his meal \n")
print(name_2+" have ate "+str(number_of_slices_ate_person_2)+" s
      +str(price_paid_by_name_2)+"$ for his meal \n")
print(name_3+" have ate "+str(number_of_slices_ate_person_3)+" s
      +str(price_paid_by_name_3)+"$ for his meal")
```

```
Auto installing libraries...
Auto installation complete.
+ poetry run python3 -u main.py
What is your name: bblecodes
What is your name: jille
What is your name: yun
How many slices in the pizza: 8
 What is the price of the pizza: 99.89

bblecodes What percentage of the pizza you have ate: 0.25
jille What percentage of the pizza you have ate: 0.5
yun What percentage of the pizza you have ate: 0.25


bblecodes have ate 2.0 slices and have paid 24.9725$ for his meal

jille have ate 4.0 slices and have paid 49.945$ for his meal

yun have ate 2.0 slices and have paid 24.9725$ for his meal
```

Practicing the basics of Python



Section 0: undefined
1 / 1 | 10min

☑ 1. Understanding the input function on python
10min

Section 1: Introduction
8 / 8 | 1hr 54min

☑ 2. Getting Started with Python
6min

☑ 3. Variables and Multiple Assignment
8min

☑ 4. Playing with the print function
7min

☑ 5. Using variables in python
16min

☑ 6. String manipulation
18min

☑ 7. Different number manipulation
23min

☑ 8. Practice part 1
14min
Resources

☑ 9. Practice part 2
22min
Resources

Course content

Section 2: Part 2
17 / 17 | 3hr 7min

☑ 10. Adding comments on your project
4min

☑ 11. The utility of functions
16min
Resources

☑ 12. How to use the return statement
6min
Resources

☑ 13. Understanding the if statement Part 1
16min

☑ 14. Understanding the if statement Part 2
19min
Resources

☑ 15. Understanding the if statement Part 3
14min
Resources

☑ 16. Working with lists
10min

☑ 17. Using functions with lists
15min

☑ 18. Difference between lists and tuples
7min

☑ 19. What is a dictionary in python
11min

☑ 20. Introduction to while loop structure
7min

☑ 21. Understanding For loops

☑ 21. Understanding For loops
9min

☑ 22. Practice : Creating and blocking passwords
17min
Resources

☑ 23. Practice: Testing combinations
7min
Resources

☑ 24. Creation of a basic encryption app
12min

☑ 25. Working with classes and objects
11min

☑ 26. Dealing with errors
7min

Section 3: Conclusion
1 / 1 | 2min

☑ 27. Conclusion
2min