

adhish-203-lab3

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0.1 Lab 3

Question: Write a function in Python with a string such that it accepts a parameter- “stringsplit”. This encoded string will contain your name, domain name and register number. You can separate the values in the string by any number of underscores. [The string should not contain any other underscore symbols in your name, domain name and register number]. The function should return a Python dictionary with your name, domain name and register number. For example, if the input would be ” Aaron_Googleplaystore__2347201”. Then the function should return the output as follows: { “name”: ” Aaron “,”Domain_name“:” Googleplaystore “,”Regno“:”2347201” }

```
[2]: import re
def takeInput():
    confirm = 0
    while confirm != 1:
        stringMain = input("\n\nEnter the string with your name, domain and reg_
↪no seperated with '_': ")
        confirm = int(input(f"\n{stringMain} is the string you want to enter?
↪\n1. Confirm\n2. Enter String Again\n-----"))
        splitAndDictionary(stringMain)

def splitAndDictionary(mainString):
    tempList = re.split("_+", mainString)

    # tempList2 = ["", "", ""]
    # index = 0
    # for i in range(len(mainString)):
    #     if mainString[i] != "_":
    #         tempList2[index] = str(tempList2[index]) + str(mainString[i])
    #     elif mainString[i] == "_":
    #         index = index + 1
    # print(tempList2)

    finalDict = {"Name": tempList[0], "Domain": tempList[1], "Registration No.":
↪tempList[2]}
    print("\nInitial String: ", mainString)
    print(f"\n\n{finalDict}")
```

```
takeInput()
```

Initial String: Adhish__Sneakers____2347203

```
{'Name': 'Adhish', 'Domain': 'Sneakers', 'Registration No.': '2347203'}
```

0.2 Lab 4

Question: Write a Python program to implement the object-oriented concepts of multiple, Multilevel and Hierarchical Inheritances using your domain applications.

```
[3]: class Sneaker:
    def __init__(self, brand, model, color, size, price):
        self.brand = brand
        self.model = model
        self.color = color
        self.size = size
        self.price = price

    def __str__(self):
        return (f"\nBrand: {self.brand} \nModel: {self.model} \nColor: {self.color}\nSize: {self.size} \nPrice: {self.price}")

class LimitedEdition(Sneaker):
    def __init__(self, brand, model, color, size, price, release_date, quantity):
        super().__init__(brand, model, color, size, price)
        self.release_date = release_date
        self.quantity = quantity

    def __str__(self):
        return super().__str__() + f"\nReleased Date: {self.release_date}\nQuantity: {self.quantity} pairs available"

class PreOwned(Sneaker):
    def __init__(self, brand, model, color, size, price, condition, seller):
        super().__init__(brand, model, color, size, price)
        self.condition = condition
        self.seller = seller

    def __str__(self):
        return super().__str__() + f"\nCondition: {self.condition} \nSold by: {self.seller}"
```

```

class Customiser:
    def __init__(self, name, company, rating):
        self.name = name
        self.company = company
        self.rating = rating

    def __str__(self):
        return (f"\nCustomised By: {self.name} \nComapny: {self.company} \nRating:␣
↪{self.rating}")

class Customized(PreOwned, Customiser):
    def __init__(self, brand, model, color, size, price, condition, seller, name,␣
↪company, rating, design):
        Sneaker.__init__(self, brand, model, color, size, price)
        PreOwned.__init__(self, brand, model, color, size, price, condition, seller)
        Customiser.__init__(self, name, company, rating)
        self.design = design

    def __str__(self):
        return super().__str__() + f"\nCustomised By: {self.name}\nCompanyName:␣
↪{self.company}\nCompany Rating: {self.rating}\nCustom design: {self.design}"

s1 = Sneaker("Nike", "Air Force 1", "White", 10.5, 9000)
s2 = LimitedEdition("Adidas", "Yeezy Boost 350 V2", "Black/Red", 9.5, 220,␣
↪"2023-02-11", 500000)
s3 = PreOwned("Converse", "Chuck Taylor All Star", "Navy", 8.5, 15000, "Good",␣
↪"Alice")
s4 = Customized("Vans", "Old Skool", "Black/White", 11.5 ,80000 , "New", "Bob",␣
↪"Alice", "AliceCustoms", 4.5, "Flames")

print(s1)
print(s2)
print(s3)
print(s4)

```

Brand: Nike
Model: Air Force 1
Color: White
Size: 10.5
Price: 9000

Brand: Adidas

Model: Yeezy Boost 350 V2
Color: Black/Red
Size: 9.5
Price: 220
Released Date: 2023-02-11
Quantity: 500000 pairs available

Brand: Converse
Model: Chuck Taylor All Star
Color: Navy
Size: 8.5
Price: 15000
Condition: Good
Sold by: Alice

Brand: Vans
Model: Old Skool
Color: Black/White
Size: 11.5
Price: 80000
Condition: New
Sold by: Bob
Customised By: Alice
CompanyName: AliceCustoms
Company Rating: 4.5
Custom design: Flames