

**Partner:** Preston Dotsey

**Task:** Brewing Beer

**Interview Notes:**

- Ingredients: Barley, Water, Hops, Yeast, Flavor/Spices
- Packaging: Bottles and/or Cans
- Various ingredients, including fresh fruit, flowers, plants, and spices are used to create flavor palettes that range beyond imagination

**Model:** Python Terminal → Interactive Beer Brewing

```
#Function: Choose Flavor
#Inputs: Season, Bottles, Cans
#Outputs: None
#Returns: Brewed Beer
def chooseFlavor(season, packaging):
    beerLabel = ""
    p = ""
    if season == 1:
        s = "Welcome the Fresh Flavors of Spring!"
        f = "ROSE&STRAWBERRY"
        beerLabel = brewBeer(s, f)
    elif season == 2:
        s = "Enjoy a Sip of Sunny Summer!"
        f = "ORANGE&LEMON"
        beerLabel = brewBeer(s, f)
    elif season == 3:
        s = "Cozy Up With a Hint of Fall!"
        f = "APPLE&CINNAMON"
        beerLabel = brewBeer(s, f)
    else:
        s = "Hit The Slopes Responsibly!"
        f = "PINE&MAPLE"
        beerLabel = brewBeer(s, f)
    if packaging == 1:
        p = "355ML/12 US FL OZ BOTTLES"
    elif packaging == 2:
        p = "355ML/12 US FL OZ CANS"
    else:
        p = "355ML/12 US FL OZ BOTTLES&CANS"
    return(beerLabel + " -- " + p)
```

```
#Function: Brew Beer
#Inputs: Label, Flavor
#Outputs: Prints Steps
#Returns: String of Beer
def brewBeer(label, flavor):
    print("Let's get brewing...")
    print("Step 1: Malting...")
    print("-")
    print("Ingredients Needed: Barley")
    print("Step 2: Milling...")
    print("--")
    print("Ingredients Needed: Water")
    print("Step 3: Mashing...")
    print("---")
    print("Step 4: Lautering...")
    print("----")
    print("Step 5: Boiling...")
    print("-----")
    print("Ingredients Needed: Hops")
    print("Step 6: Fermenting...")
    print("-----")
    print("Ingredients Needed: Yeast, ", flavor)
    print("Step 7: Conditioning...")
    print("-----")
    print("Step 8: Filtering...")
    print("-----")
    print("Step 9: Time to package and label our freshly brewed beer!..")
    print("-----")
    return(label + " -- " + flavor)
```

```
#Function: Main
#Inputs: None
#Outputs: Menu
#Returns: Int
def main():
    seasonChoice = 0
    packageChoice = 0
    brewedBeer = ""
    i = 0
    #Main Menu
    print("Hi! Let's Brew Some Beer!")

    #Choose Flavor
    print("First, please choose a seasonal flavor:")
    print("1. Spring: Rose&Strawberry")
    print("2. Summer: Orange&Lemon")
    print("3. Fall: Apple&Cinnamon")
    print("4. Winter: Pine&Maple")
    #Read User Input
    seasonChoice = int(input("So, what do you choose?"))
    #Choose Packaging
    print("Great! Now let's choose packaging: ")
    print("1. Bottles Only")
    print("2. Cans Only")
    print("3. Let's Do Both :) ")
    #Read User Input
    packageChoice = int(input("So, what do you choose?"))

    if seasonChoice < 0 or packageChoice < 0 or seasonChoice > 4 or packageChoice > 3:
        print("Please choose again.")

    else:
        brewedBeer = chooseFlavor(seasonChoice, packageChoice)

    print("BREWED BEER")
    print(brewedBeer)
main()
```

## Model Outputs:

```
Hi! Let's Brew Some Beer!
First, please choose a seasonal flavor:
1. Spring: Rose&Strawberry
2. Summer: Orange&Lemon
3. Fall: Apple&Cinnamon
4. Winter: Pine&Maple
So, what do you choose?1
Great! Now let's choose packaging:
1. Bottles Only
2. Cans Only
3. Let's Do Both :)
So, what do you choose?1
Let's get brewing...
Step 1: Malting...
-
Ingredients Needed: Barley
Step 2: Milling...
--
Ingredients Needed: Water
Step 3: Mashing...
---
Step 4: Lautering...
----
Step 5: Boiling...
-----
Ingredients Needed: Hops
Step 6: Fermenting...
-----
Ingredients Needed: Yeast, ROSE&STRAWBERRY
Step 7: Conditioning...
-----
Step 8: Filtering...
-----
Step 9: Time to package and label our freshly brewed beer!...
-----
BREWED BEER
Welcome the Fresh Flavors of Spring! -- ROSE&STRAWBERRY -- 355ML/12 US FL OZ BOTTLES
```

```
Hi! Let's Brew Some Beer!
First, please choose a seasonal flavor:
1. Spring: Rose&Strawberry
2. Summer: Orange&Lemon
3. Fall: Apple&Cinnamon
4. Winter: Pine&Maple
So, what do you choose?2
Great! Now let's choose packaging:
1. Bottles Only
2. Cans Only
3. Let's Do Both :)
So, what do you choose?2
Let's get brewing...
Step 1: Malting...
-
Ingredients Needed: Barley
Step 2: Milling...
--
Ingredients Needed: Water
Step 3: Mashing...
---
Step 4: Lautering...
----
Step 5: Boiling...
-----
Ingredients Needed: Hops
Step 6: Fermenting...
-----
Ingredients Needed: Yeast,  ORANGE&LEMON
Step 7: Conditioning...
-----
Step 8: Filtering...
-----
Step 9: Time to package and label our freshly brewed beer!...
-----
BREWED BEER
Enjoy a Sip of Sunny Summer! -- ORANGE&LEMON -- 355ML/12 US FL OZ CANS
```

```
Hi! Let's Brew Some Beer!
First, please choose a seasonal flavor:
1. Spring: Rose&Strawberry
2. Summer: Orange&Lemon
3. Fall: Apple&Cinnamon
4. Winter: Pine&Maple
So, what do you choose?3
Great! Now let's choose packaging:
1. Bottles Only
2. Cans Only
3. Let's Do Both :)
So, what do you choose?3
Let's get brewing...
Step 1: Malting...
-
Ingredients Needed: Barley
Step 2: Milling...
--
Ingredients Needed: Water
Step 3: Mashing...
---
Step 4: Lautering...
----
Step 5: Boiling...
-----
Ingredients Needed: Hops
Step 6: Fermenting...
-----
Ingredients Needed: Yeast,  APPLE&CINNAMON
Step 7: Conditioning...
-----
Step 8: Filtering...
-----
Step 9: Time to package and label our freshly brewed beer!...
-----
BREWED BEER
Cozy Up With a Hint of Fall! -- APPLE&CINNAMON -- 355ML/12 US FL OZ BOTTLES&CANS
```

```
Hi! Let's Brew Some Beer!
First, please choose a seasonal flavor:
1. Spring: Rose&Strawberry
2. Summer: Orange&Lemon
3. Fall: Apple&Cinnamon
4. Winter: Pine&Maple
So, what do you choose?4
Great! Now let's choose packaging:
1. Bottles Only
2. Cans Only
3. Let's Do Both :)
So, what do you choose?4
Please choose again.
BREWED BEER
```

**Annotations/Revised Model:**

This is actually very on point. The steps are in order and I like how you split the flavors into seasonal varieties. The python code is straightforward and easy to decipher, which matched with the step by step process of brewing. I wouldn't make any changes, this is well done!

