This Python code implements an "email slicer" program that takes an email address as input, parses it, and then extracts and displays the username, domain, and extension of the email address. Here's a step-by-step explanation of the code:-

- 1) Define the main function:-
 - The code starts by defining the main function. This function will handle the core logic of the program.
- 2) Print a welcome message:-

```
def main():
    print(" Welcome to the email slicer ")
    print("")
```

This code prints a welcome message to the user, indicating that they are using an email slicer.

3) Prompt the user for their email address:-

```
email_input = input("Input your email address: ")
```

The program uses the input function to prompt the user to input their email address and stores the input in the email_input variable.

4) Split the email address into parts:

```
(username, domain) = email_input.split("@")
  (domain, extension) = domain.split(".")
```

- The code uses the split method to break the email address into three parts: username, domain, and extension.
- First, it splits the email address at the "@" symbol to separate the username and the domain.
- Then, it splits the domain part at the "." symbol to separate the domain and extension.

5) Print the parsed components:-

```
print("Username : ", username)
print("Domain : ", domain)
print("Extension: ", extension)
```

The program prints out the parsed components of the email address: the username, domain, and extension.

6) Start an infinite loop:-

```
while True:
    main()
```

The code enters an infinite loop that repeatedly calls the main function. This allows the user to continue entering email addresses and getting them sliced without having to restart the program each time.

So, when you run this program, it will keep asking you to input an email address, and it will then split and display the username, domain, and extension of that email address. The loop allows you to keep using the program for multiple email addresses without needing to relaunch it each time.