

Link to my Github : https://github.com/jahinmahbub/cpp_cs5800_codes

Input:

```
// Builder class
import java.util.ArrayList;
import java.util.List;

public class Builder {
    private String chainName;
    private String size;
    private List<String> toppings;

    public Builder(String chainName) {
        this.chainName = chainName;
        this.toppings = new ArrayList<>();
    }

    public Builder size(String size) {
        this.size = size;
        return this;
    }

    public Builder toppings(List<String> toppings) {
        this.toppings = toppings;
        return this;
    }

    public Pizza build() {
        return new Pizza(chainName, size, toppings);
    }
}
```

```
//Pizza Class
import java.util.List;

public class Pizza {
    private String chainName;
    private String size;
    private List<String> toppings;

    public Pizza(String chainName, String size, List<String> toppings) {
        this.chainName = chainName;
        this.size = size;
        this.toppings = toppings;
    }

    public String getChainName() {
        return chainName;
    }

    public String getSize() {
        return size;
    }

    public List<String> getToppings() {
        return toppings;
    }

    public void eat() {
        System.out.print("Eating at " + chainName + ". A " + size + " pizza with ");
        for (int i = 0; i < toppings.size(); i++) {
            System.out.print(toppings.get(i));
            if (i < toppings.size() - 1) {
                System.out.print(", ");
            }
        }
        System.out.println(".");
    }
}
```

```

//Driver Program
import java.util.Arrays;

public class Driver {
    public static void main(String[] args) throws Exception {
        // Pizza Hut pizzas
        Pizza pizza1 = new Builder("Pizza Hut")
                                .size("Small")
                                .toppings(Arrays.asList("Pepperoni", "Mushrooms"))
                                .build();

        pizza1.eat();

        Pizza pizza2 = new Builder("Pizza Hut")
                                .size("Large")

        .toppings(Arrays.asList("Sausage", "Bacon", "Peppers"))
                                .build();

        pizza2.eat();

        // Little Caesars pizzas
        Pizza pizza3 = new Builder("Little Caesars")
                                .size("Medium")

        .toppings(Arrays.asList("Pepperoni", "Sausage", "Mushrooms", "Bacon", "Onions", "Extra
        Cheese", "Peppers", "Chicken"))
                                .build();

        pizza3.eat();

        Pizza pizza4 = new Builder("Little Caesars")
                                .size("Small")
                                .toppings(Arrays.asList("Sausage", "Mushrooms", "Ham
        and Pineapple", "Bacon", "Extra Cheese", "Ham"))
                                .build();

        pizza4.eat();

        // Dominos pizzas
        Pizza pizza5 = new Builder("Dominos")
                                .size("Small")
                                .toppings(Arrays.asList("Tomato and Basil"))
                                .build();

        pizza5.eat();

        Pizza pizza6 = new Builder("Dominos")
                                .size("Large")

        .toppings(Arrays.asList("Sausage", "Mushrooms", "Onions"))
                                .build();

        pizza6.eat();
    }
}

```

Output:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Jahin Catalan Mahbub\My Drive (mzahin.zm@gmail.com)\CPP Canvas\CS 5800\Codes\Assignment2\1.Builder\Builder.java>
    & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.6.10-hotspot\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' '
C:\Users\Jahin Catalan Mahbub\My Drive (mzahin.zm@gmail.com)\CPP Canvas\CS 5800\Codes\Assignment2\1.Builder\Builder.java\bin
' 'Driver'
Eating at Pizza Hut. A Small pizza with Pepperoni, Mushrooms.
Eating at Pizza Hut. A Large pizza with Sausage, Bacon, Peppers.
Eating at Little Caesars. A Medium pizza with Pepperoni, Sausage, Mushrooms, Bacon, Onions, Extra Cheese, Peppers, Chicken.
Eating at Little Caesars. A Small pizza with Sausage, Mushrooms, Ham and Pineapple, Bacon, Extra Cheese, Ham.
Eating at Dominos. A Small pizza with Tomato and Basil.
Eating at Dominos. A Large pizza with Sausage, Mushrooms, Onions.
PS C:\Users\Jahin Catalan Mahbub\My Drive (mzahin.zm@gmail.com)\CPP Canvas\CS 5800\Codes\Assignment2\1.Builder\Builder.java>
```

█