Builder Design Pattern

Director calls individual steps required to build the object

Meal Builder defines the name of those steps.

Veg/NonvegBuilders give the different implementations of these building steps

```
public class Meal {
   String burger;
   String drink;
   String sweet;
} String fries;
}
Standard Mean

String burger;

String sweet;

String burger;

String burg
```

Standard Meal without a constructor

Director;-

```
public abstract class MealBuilder {
                                                                      Meal Builder :-
                                                                                                                      protected Meal meal = new Meal():
public class Director {
    private MealBuilder builder;
                                                                                                                      public void reset() {
                                                                                                                         meal = new Meal();
    public void setMealBuilder(MealBuilder builder) 
        this.builder = builder;
                                                                                                                      public abstract void addBurger();
                                                                                                                      public abstract void addSweet():
                                                                                                                      public abstract void addFries();
                                                                                                                      public abstract void addDrink();
                                                                       1 Different
Implementations
    public Meal construct() {
                                                                                                                      public Meal getMeal() {
        builder.reset();
                                                                                                                         return meal;
        builder.addBurger();
        builder.addDrink();
        builder.addFries():
        builder.addSweet();
        return builder.getMeal();
                                                  public class NonVegLunchBuilder extends MealBuilder {
                                                                                                          public class VegLunchBuilder extends MealBuilder {
                                                                                                              @Override
                                                      @Override
                                                                                                              public void addBurger() {
                                                      public void addBurger() {
                                                                                                                  meal.burger = "Cheese Veg Burger";
                                                          meal.burger = "Chicken Burger";
                                                                                                              @Override
                                                                                                              public void addDrink() {
                                                      @Override
                                                                                                                  meal.drink = "Diet Coke";
                                                      public void addDrink() {
                                                          meal.drink = "McFlurry";
                                                                                                              @Override
                                                                                                              public void addFries() {
                                                      @Override
                                                                                                                  meal.fries = "small Fries";
                                                      public void addFries() {
                                                          meal.fries = "King";
                                                                                                              @Override
                                                      @Override
                                                                                                              public void addSweet() {
                                                                                                                  meal.sweet = "Vanilla Ice Cream";
                                                      public void addSweet() {
                                                          meal.sweet = "Gulab Jamun";
```

```
class Test {
    Run | Debug
    public static void main(String[] args) {
        Director dir = new Director();
        dir.setMealBuilder(new VegLunchBuilder());
        Meal meal = dir.construct();
        System.out.println(meal.burger);

        dir.setMealBuilder(new NonVegLunchBuilder());
        meal = dir.construct();
        System.out.println(meal.burger);
    }
}
```

Cheese Veg Burger Chicken Burger

first director's meal Builder is Veg Lunch Builder so it constructs veg meal and seturns veg Burgel.

At next, its meal Builder is set to Non Veg Builder which sets or creates non-red meal in construct with following set algorithm and return Chicken Burger.

Steps q (reation: Director class.

Individual steps définéd:- In Buitder (meal Builder)

Individual Step's different Behaviour in different Builder Masses.

Problem Statement! - to streamline Construction's Process.

