Look at the following class diagram and class notations carefully, and develop the program.

**Class Diagram**

Food

Pizza

Drinks

Burger

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| Food |
| String name  String ingredients [] double price float calories |
| Food()  Food (String name, String[] ingredients, double price, float calories)    void setName(String name)  void setIngredients (String[] ingredients) void setPrice(double price) void setCalories (float calories)    String getName ( ) String[] getIngredients ( ) double getPrice ( ) float getCalories ( )  void removeIngredient(String ingredient) void addingredient(String ingredient)    abstract void showDetails( ) |

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| **Drinks** |
| String Type int sizeInLitter |
| Drinks()  Drinks (String name, String[] ingredients, double price, float calories, String type, int sizeInLitter)    void setType (String type)  void setSize(int sizeInLitter)    String getType () int getSize () |
| Burger |
| int numberOfPatty |
| Burger()  Burger( String name, String[] ingredients, double price, float calories, int numberOfPatty)    void setNumberOfPatty (int numberOfPatty) int getNumberOfPatty ()    void showDetails () |

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| Pizza |
| int sizeInInches |
| Pizza()  Pizza( String name, String[] ingredients, double price, float calories, int sizeInInches)    void setSize (int sizeInInches)  int getSize ()    void showDetails () |

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| Start |
| The ***start*** class contains the main method. Inside the main method, create two objects of ***Drinks,******Burger***and ***Pizza***. Demonstrate all the methods and constructors. |