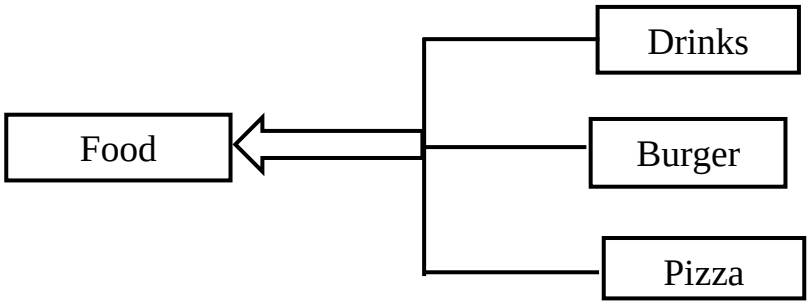
AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)
Faculty of Science and Technology (FST)
Department of Computer Science (CS)

Course Title: CSC1205: Object Oriented Programming 1 (JAVA)

Lab Task 5: Developing a basic Java program with Inheritance.

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



Class Diagram

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 ()

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

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.