**1. Food Item**

**FoodItem.java**

public class FoodItem{

private double price;

private String name;

public FoodItem(){

System.out.println("Empty constructor");

}

public FoodItem(double price, String name){

this.price = price;

this.name = name;

}

public void setPrice (double price){

this.price = price;

}

public void setName (String name){

this.name = name;

}

public double getPrice(){

return this.price;

}

public String getName(){

return this.name;

}

public void showDetails(){

System.out.println("The price is: "+price);

System.out.println("The name is: "+name);

}

}

Burger.java

public class Burger extends FoodItem{

private int numberOfPatties;

Burger ( int numberOfPatties){

this.numberOfPatties = numberOfPatties;

}

Burger(){}

public void setNumberOfPatties(int numberOfPatties){

this.numberOfPatties = numberOfPatties;

}

public int getNumberOfPatties(){

return this.numberOfPatties;

}

public void showDetails(){

super.showDetails();

System.out.println("The number of patties are: "+getNumberOfPatties());

}

}

Pizza.java

public class Pizza extends FoodItem{

private String size;

Pizza( String size){

this.size = size;

}

Pizza(){}

public void setSize(String size){

this.size = size;

}

public String getSize(){

return this.size;

}

public void showDetails(){

super.showDetails();

System.out.println("The size of the Pizza is: "+getSize());

}

}

Start.java

public class Start{

public static void main(String args[]){

Pizza p1 = new Pizza();

p1.setName("Pizza");

p1.setPrice(450.89);

p1.setSize("M");

p1.showDetails();

Pizza p2 = new Pizza();

p2.setName("Pizza");

p2.setPrice(1000.99);

p2.setSize("L");

p2.showDetails();

System.out.println("===============================================");

Burger b1 = new Burger();

b1.setName("Double chesse");

b1.setPrice(340.50);

b1.setNumberOfPatties(5);

b1.showDetails();

Burger b2 = new Burger();

b2.setName("Double chesse");

b2.setPrice(340.50);

b2.setNumberOfPatties(5);

b2.showDetails();

}

}

**2. Account**

Account.java

public class Account {

private int accountNumber;

private String accountHolderName;

private double balance;

public Account(){ }

public Account(int accountNumber, String accountHolderName, double balance){

this.accountNumber=accountNumber;

this.accountHolderName=accountHolderName;

this.balance=balance;

}

public void setAccountNumber(int accountNumber) {

this.accountNumber=accountNumber;

}

public void setAccountHolderName(String accountHolderName) {

this.accountHolderName=accountHolderName;

}

public void setBalance(double balance) {

this.balance=balance;

}

public int getAccountNumber() {

return this.accountNumber;

}

public String getAccountHolderName() {

return this.accountHolderName;

}

public double getBalance() {

return this.balance;

}

public void showDetails(){

System.out.println();

System.out.println("The Account Number:"+accountNumber);

System.out.println("The Account Holder Name:"+accountHolderName);

System.out.println("The Blance of the Account is :"+balance);

System.out.println();

}

void withdraw(double amount) {

if(balance<amount&&amount<1){

System.out.println("\nInvalid ammount! Can not be withdrawed\n");

return;

}

System.out.println("\nAmmount withdrawed: "+amount);

System.out.println();

balance= balance-amount;

}

void deposit(double amount) {

if(amount<1){

System.out.println("\nInvalid ammount! Can not be deposited\n");

return;

}

System.out.println("\nAmmount diposited: "+amount);

System.out.println();

balance= balance+amount;

}

}

Start.java

public class Start{

public static void main(String args[]) {

Account a1 = new Account();

a1.setAccountNumber(121);

a1.setAccountHolderName("Rajveer");

a1.setBalance(10000);

Account a2,a3,a4,a5;

a2 = new Account(122,"Talha",20000);

a3 = new Account(123,"Shifat",30000);

a4 = new Account(124,"Arni",40000);

a5 = new Account(125,"Mim",50000);

Account accounts[] = new Account[5];

accounts[0] = a1;

accounts[1] = a2;

accounts[2] = a3;

accounts[3] = a4;

accounts[4] = a5;

for(int i=0;i<5;i++){

System.out.println();

System.out.println("The Account Number: "+accounts[i].getAccountNumber());

System.out.println("The Account Holder Name:"+accounts[i].getAccountHolderName());

System.out.println("The Blance of the Account is: "+accounts[i].getBalance());

System.out.println();

}

a2.deposit(500);

a5.withdraw(1000);

for(int i=0;i<5;i++){

accounts[i].showDetails();

}

a3 = null;

for(int i=0;i<5;i++){

accounts[i].showDetails();

}

}

}