

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 withdrawn\n");
        return;
    }
    System.out.println("\nAmmount withdrawn: "+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();  
    }  
}  
}
```