*// The purpose of the application is to help a ficticious company called Bills Burgers to manage  
// their process of selling hamburgers.  
// Our application will help Bill to select types of burgers, some of the additional items (additions) to  
// be added to the burgers and pricing.  
// We want to create a base hamburger, but also two other types of hamburgers that are popular ones in  
// Bills store.  
// The basic hamburger should have the following items.  
// bread roll type, meat and up to 4 additional additions (things like lettuce, tomato, carrot, etc) that  
// the customer can select to be added to the burger. Each one of these items gets charged an additional  
// price so you need some way to track how many items got added and to calculate the price (for the base  
// burger and all the additions).  
// This burger has a base price and the additions are all seperately priced.  
// Create a Hamburger class to deal with all the above.  
// The constructor should only include the roll type, meat and price.  
// Also create two extra varieties of Hamburgers (classes) to cater for  
// a) Healthy burger (on a brown rye bread roll), plus two addition items can be added.  
// The healthy burger can have a total of 6 items (Additions) in total.  
// hint: you probably want to process the 2 additional items in this new class, not the base class,  
// since the 2 additions are only appropriate for this new class.  
// b) Deluxe hamburger - comes with chips and drinks as additions, but no extra additions are allowed.  
// hint: You have to find a way to automatically add these new additions at the time the deluxe burger  
// object is created, and then prevent other additions being made.  
// All 3 classes should have a method that can be called anytime to show the base price of the hamburger  
// plus all additionals, each showing the addition name, and addition price, and a grand total for the  
// burger  
// For the two additional classes this may require you to be looking at the base class for pricing and then  
// adding totals onto that.*

MAIN

**package** com.company;  
  
**public class** Main {  
  
 **public static void** main(String[] args) {  
 HamBurgers hb=**new** HamBurgers(**"Chicken"**, **"Lomba"**, 960.5, **"Kucho"**);  
 hb.Totalprice();  
  
 hb.addons1(**"Pizza"**, 100.5);  
 hb.Totalprice();  
*// hb.addons2("Piz", 100.5);  
// hb.Totalprice();  
// hb.addons3("Pza", 100.5);  
// hb.Totalprice();  
// hb.addons4("zza", 100.5);  
// hb.Totalprice();  
//* HealthyBurger healthyBurger=**new** HealthyBurger(**"Soft"**, 45.96);  
*// healthyBurger.Totalprice();  
// healthyBurger.addons1("Egg", 10.65);;  
// healthyBurger.Totalprice();  
  
 /\*you have choosen Chicken Price is : 960.5  
 you have choosen Chicken Price is : 960.5  
 Total Price is : 1061.0  
 you have choosen Chicken Price is : 1061.0  
 Total Price is : 1161.5  
 you have choosen Chicken Price is : 1161.5  
 Total Price is : 1262.0  
 you have choosen Chicken Price is : 1262.0  
 Total Price is : 1362.5  
 you have choosen brown rye Price is : 45.96  
 you have choosen brown rye Price is : 45.96  
 Total Price is : 56.61\*/* System.***out***.println(**"\*"**);  
 healthyBurger.addonHealthy(**"Egg"**, 8.60);  
 healthyBurger.Totalprice();  
 hb.addons1(**"Pop"**, 9.50);  
 hb.Totalprice();  
 *//COMMENTING LINE 11 TO 17 & 19 TO 21  
 /\*  
 you have choosen Chicken Price is : 960.5  
 you have choosen Chicken Price is : 960.5  
 Total Price is : 1061.0  
 \*  
 you have choosen brown rye Price is : 45.96 //brown rye is healthy  
 Extra : Egg Price : 8.6  
 you have choosen Chicken Price is : 1061.0  
 Total Price is : 1070.5  
 \*/* Delux\_burgers db=**new** Delux\_burgers();  
 db.addons1(**"jar"**, 59.36);  
 db.Totalprice();  
 */\*  
 you have choosen Chicken Price is : 960.5  
 you have choosen Chicken Price is : 960.5  
 Total Price is : 1061.0  
 \*  
 you have choosen brown rye Price is : 45.96  
 Extra : Egg Price : 8.6  
 you have choosen Chicken Price is : 1061.0  
 Total Price is : 1070.5  
 Nothing can be added  
 you have choosen Delux Price is : 50.52  
 Total Price is : 100.72  
 Total Price is : 191.32  
 \*/* }  
}

HAMBURGER

**package** com.company;  
  
**public class** HamBurgers {  
 **private** String **bread\_roll\_type**;  
 **private** String **name**;  
 **private** Double **price**;  
 **private** String **meat**;  
  
 **private** String **Additional1name**;  
 **private** Double **Additional1price**;  
  
 **private** String **Additional2name**;  
 **private** Double **Additional2price**;  
  
 **private** String **Additional3name**;  
 **private** Double **Additional3price**;  
  
 **private** String **Additional4name**;  
 **private** Double **Additional4price**;  
  
 **public** HamBurgers(String bread\_roll\_type, String name, Double price, String meat) {  
 **this**.**bread\_roll\_type** = bread\_roll\_type;  
 **this**.**name** = name;  
 **this**.**price** = price;  
 **this**.**meat** = meat;  
 }  
  
 **public void** addons1(String name, **double** price){  
 **Additional1name**=name;  
 **Additional1price**=price;  
 }  
  
 **public void** addons2(String name, **double** price){  
 **Additional2name**=name;  
 **Additional2price**=price;  
 }  
  
 **public void** addons3(String name, **double** price){  
 **Additional3name**=name;  
 **Additional3price**=price;  
 }  
  
 **public void** addons4(String name, **double** price){  
 **Additional4name**=name;  
 **Additional4price**=price;  
 }  
  
 **public double** Totalprice(){  
 System.***out***.println(**"you have choosen "** + **this**.**bread\_roll\_type** + **" Price is : "** + **this**.**price**);  
  
 **if** (**this**.**Additional1name**!=**null**){  
 **this**.**price**=**this**.**price**+**this**.**Additional1price**;  
 System.***out***.println(**"Total Price is : "** + **this**.**price**);  
 }  
  
 **if** (**this**.**Additional2name**!=**null**){  
 **this**.**price**=**this**.**price**+**this**.**Additional2price**;  
 System.***out***.println(**"Total Price is : "** + **this**.**price**);  
 }  
  
 **if** (**this**.**Additional3name**!=**null**){  
 **this**.**price**=**this**.**price**+**this**.**Additional3price**;  
 System.***out***.println(**"Total Price is : "** + **this**.**price**);  
 }  
  
 **if** (**this**.**Additional4name**!=**null**){  
 **this**.**price**=**this**.**price**+**this**.**Additional4price**;  
 System.***out***.println(**"Total Price is : "** + **this**.**price**);  
 }  
  
 **return price**;  
 }  
}

healthy BERGER

**package** com.company;  
  
**public class** HealthyBurger **extends** HamBurgers {  
  
 **private** String **mane**;  
 **private double prices**;  
  
 **public** HealthyBurger(String name, Double price) {  
 **super**(**"brown rye"**, name, price, **"meat"**);  
 }  
  
 **private** String **AddHealthyonName**;  
 **private double AddHealthyonPrice**;  
  
 **private** String **AddHealthyonName1**;  
 **private double AddHealthyonPrice1**;  
  
 **public void** addonHealthy(String name, **double** price){  
 **AddHealthyonName**=name;  
 **AddHealthyonPrice**=price;  
 }  
  
 **public void** addonHealthy1(String name, **double** price){  
 **AddHealthyonName1**=name;  
 **AddHealthyonPrice1**=price;  
 }  
  
 @Override  
 **public double** Totalprice() {  
 **double** hamburger = **super**.Totalprice();  
 **if** (**this**.**AddHealthyonName**!=**null**){  
 **prices**=**prices**+**this**.**AddHealthyonPrice**;  
 System.***out***.println(**"Extra : "** + **this**.**AddHealthyonName** + **" Price : "** + **prices**);  
 }  
  
 **if** (**this**.**AddHealthyonName1**!=**null**){  
 **prices**=**prices**+**this**.**AddHealthyonPrice1**;  
 System.***out***.println(**"Extra : "** + **this**.**AddHealthyonName1** + **" Price : "** + **prices**);  
 }  
 **return prices**;  
 }  
}

DELUX BURGERS

**package** com.company;  
  
**public class** Delux\_burgers **extends** HamBurgers {  
  
 **public** Delux\_burgers() {  
 **super**(**"Delux"**, **"Dl"**, 50.52, **"Chicken"**);  
 **super**.addons1(**"Coke"**, 50.2); *//allowing to add elements when Delux is called* **super**.addons2(**"fry"**, 90.6);  
 }  
  
 *//preventing other elements to be added in Delux class  
 //override the 4 addons method on Hamburgers* @Override  
 **public void** addons1(String name, **double** price) {  
 System.***out***.println(**"Nothing can be added"**);  
 }  
  
 @Override  
 **public void** addons2(String name, **double** price) {  
 System.***out***.println(**"Nothing can be added"**);  
 }  
  
 @Override  
 **public void** addons3(String name, **double** price) {  
 System.***out***.println(**"Nothing can be added"**);  
 }  
  
 @Override  
 **public void** addons4(String name, **double** price) {  
 System.***out***.println(**"Nothing can be added"**);  
 }  
}