

Jan 13, 10 12:23	Item.java	Page 1/1
<pre>public class Item{ //Simply stores 5 strings     String[] items = new String[5]; //Space for 5 items as per spec. Any more are     simply dropped      public Item(String item0, String item1, String item2, String item3, String it em4){         /*Just have all items as constructor arguments to save time */         items[0] = item0;         items[1] = item1;         items[2] = item2;         items[3] = item3;         items[4] = item4;     }      //Main purpose of this class is to provide a quick method get a string repres entation     //of the array or "shopping list"     public String toString(){         String result = "Items:\n";         for(String element : items){             result = String.format("%s\n%s",result,element);         }         return result;     } }</pre>		

Jan 13, 10 12:29	List.java	Page 1/1
<pre data-bbox="0 89 472 1421"><i>//Simple abstract class for method prototypes</i> public abstract class List{     public abstract Item getWeekday();     public abstract Item getWeekend();     public abstract Item getSummer();     public abstract Item getWinter();     public abstract String toString(); }</pre>		

Jan 13, 10 12:25	MarriedCouple.java	Page 1/1
//Not much to see here		
<b>public class MarriedCouple extends</b> List{		
<b>public</b> Item getWeekday(){ <b>return new</b> Item( "Baby Food" , "Pasta" , "Chicken" , "Milk" , "Nappies" ); }		
<b>public</b> Item getWeekend(){ <b>return new</b> Item( "Steak" , "Sugar Puffs" , "Fruit Juice" , "TV Guide" , "7up" ); }		
<b>public</b> Item getSummer(){ <b>return new</b> Item( "Sun Protection" , "Shades" , "Bucket" , "Spade" , "Kids Hat" ); }		
<b>public</b> Item getWinter(){ <b>return new</b> Item( "Scarf" , "Hat" , "Kids Gloves" , "Firelog" , "Board Game" ); }		
<b>public</b> String toString(){ <b>return</b> "Married Couple"; }		
}		

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//Again, not much to see here		
<b>public class Singleperson extends</b> List{		
<div><div><b>public</b> Item getWeekday(){     <b>return new</b> Item("Sandwich", "Rashers", "Apple", "Milk", "Wine"); } //Hardest part was picking what to put on each shopping list.     //Do I really think all single people are lushes who down a bottle of wine each night?</div></div>		
<div><div><b>public</b> Item getWeekend(){     <b>return new</b> Item("Pizza", "Beer", "Orange Juice", "TV Guide", "Vitamins"); }</div></div>		
<div><div><b>public</b> Item getSummer(){     <b>return new</b> Item("Sun Protection", "Ice", "Swimsuit", "Wine", "Cooler"); }</div></div>		
<div><div><b>public</b> Item getWinter(){     <b>return new</b> Item("Coat", "Scarf", "Attractive Hat", "Coal", "Oranges"); }</div></div>		
<div><div><b>public</b> String toString(){     <b>return</b> "Single Person"; }</div></div>		
}		

Jan 13, 10 12:25	Retired.java	Page 1/1
//Not much to see here		
<b>public class Retired extends</b> List{		
<b>public</b> Item getWeekday(){ <b>return new</b> Item( "Fruit" , "TV Guide" , "Stew" , "Milk" , "Wine" ); }		
<b>public</b> Item getWeekend(){ <b>return new</b> Item( "Roast" , "Orange Juice" , "Oats" , "Book" , "Beans" ); }		
<b>public</b> Item getSummer(){ <b>return new</b> Item( "Strong Sun Protection" , "Book" , "Towel" , "Straw Hat" , "Water" ); }		
<b>public</b> Item getWinter(){ <b>return new</b> Item( "Hat" , "Scarf" , "Gloves" , "Brandy" , "Cake" ); }		
<b>public</b> String toString(){ <b>return</b> "Retired Person"; }		
}		

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<pre> import java.util.InputMismatchException; import java.util.Scanner; class ListMaker{      static Scanner sc = new Scanner(System.in);      public static void main(String Args[]){         List shoppinglist = new Singleperson();           //Init here to stop the compiler moaning.         shoppinglist = setProfile(shoppinglist);           //Set shopper profile (S ingle, Married, Retired)         System.out.printf("\n%s selected\n", shoppinglist); //Return string representati on of profile to user         Item finalList = getShoppingList(shoppinglist);    //Set circumstances. Thi s returns an array of strings   //in a container class " Item"         System.out.printf("\n%s\n", finalList);            //Calls the Items toStrin g method and prints the result     }      //Set shopper profile by casting list to profile selected by user     public static List setProfile(List list){         int selection;          boolean valid = false;          while(!valid){             try{                 System.out.printf("Please select profile type:\nRetired(1)\nSingle(2)\nMarried(3)\nChoose : ");                 selection = sc.nextInt();                 valid = true; //Assume true for the moment             }catch (InputMismatchException inputMismatchException){                 selection = 0; //Stop the program from crashing, but keep "invalid" input                 //System.err.printf("\nException; %s\n", inputMismatchException); Be tter to hide mess from user?                 sc.nextLine(); //Discard input so user can try again                 //Using the switch to handle invalid input             }             switch(selection){                 case 1 : list = new Retired(); break;                 case 2 : list = new Singleperson(); break;                 case 3 : list = new MarriedCouple(); break;                 default :                     System.out.printf("Invalid choice\n");                     valid = false;                     break;             }         }         return list;     }      //Returns the given lists Item(s), More or less the same as setProfile     public static Item getShoppingList(List list){         int selection;         Item result = list.getWeekday(); //Init here to get the compiler to shut up         boolean valid = false;         while(!valid){ </pre>		

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<pre>         try{             System.out.printf("Please enter circumstances:\nWeekday(1)\nWeekend(2)\n" );             System.out.printf("Summer Holiday(3)\nWinter Holiday(4)\nChoose : " );             selection = sc.nextInt();             valid = true;         }catch (InputMismatchException InputMismatchException){             selection = 0;             sc.nextLine();         }         switch(selection){             case 1 : result = list.getWeekday(); break;             case 2 : result = list.getWeekend(); break;             case 3 : result = list.getSummer(); break;             case 4 : result = list.getWinter(); break;             default :                 System.out.printf("Invalid choice\n");                 valid = false;                 break;         }     }     return result; }  } //End class ListMaker  //} </pre>		

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<pre> /* First Run */ Please select profile type: Retired(1) Single(2) Married(3) Choose : Retired Person selected Please enter circumstances: Weekday(1) Weekend(2) Summer Holiday(3) Winter Holiday(4) Choose : Items:  Strong Sun Protection Book Towel Straw Hat Water  /*Second Run */ Please select profile type: Retired(1) Single(2) Married(3) Choose : Married Couple selected Please enter circumstances: Weekday(1) Weekend(2) Summer Holiday(3) Winter Holiday(4) Choose : Items:  Baby Food Pasta Chicken Milk Nappies  /*Third Run*/ Please select profile type: Retired(1) Single(2) Married(3) Choose : Single Person selected Please enter circumstances: Weekday(1) Weekend(2) Summer Holiday(3) Winter Holiday(4) Choose : Items:  Coat Scarf Attractive Hat Coal Oranges </pre>		