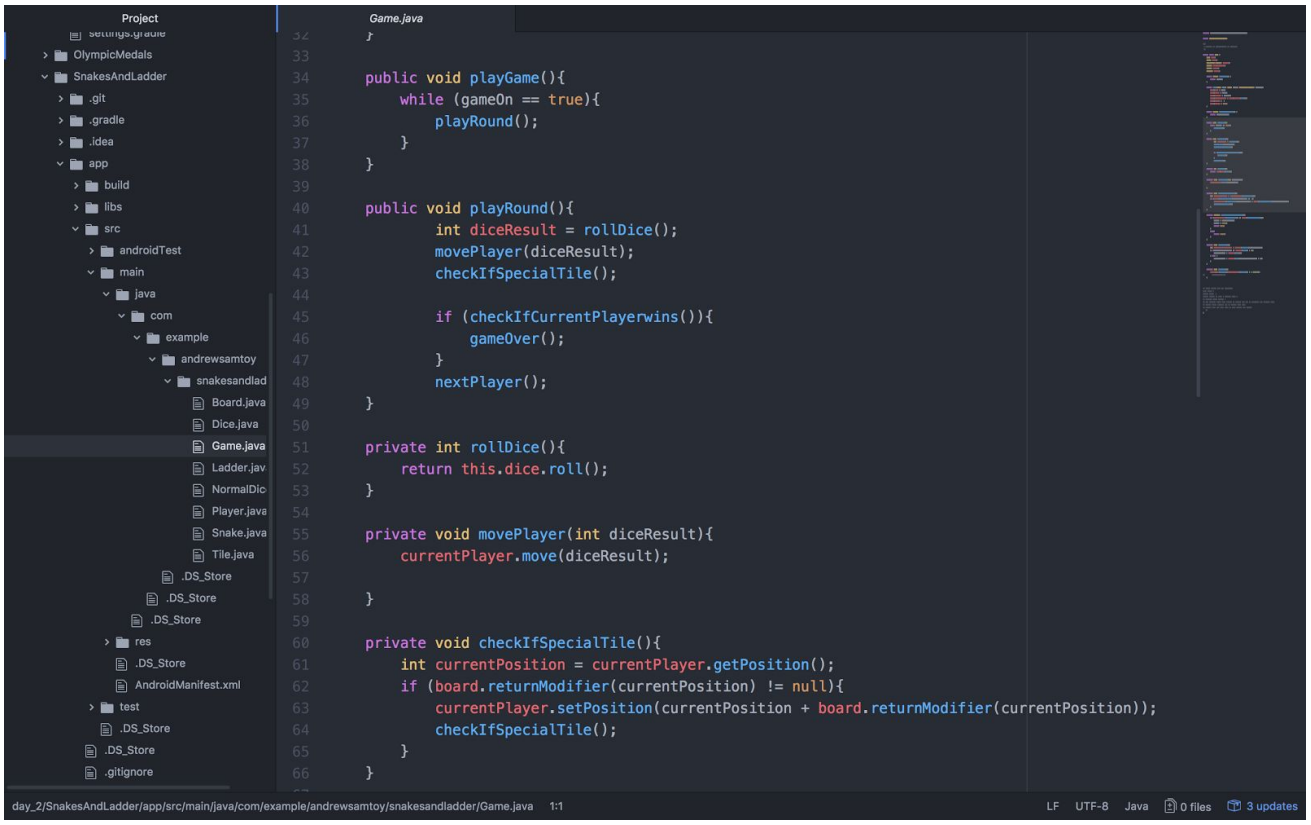
I.T. 1 - Encapsulation

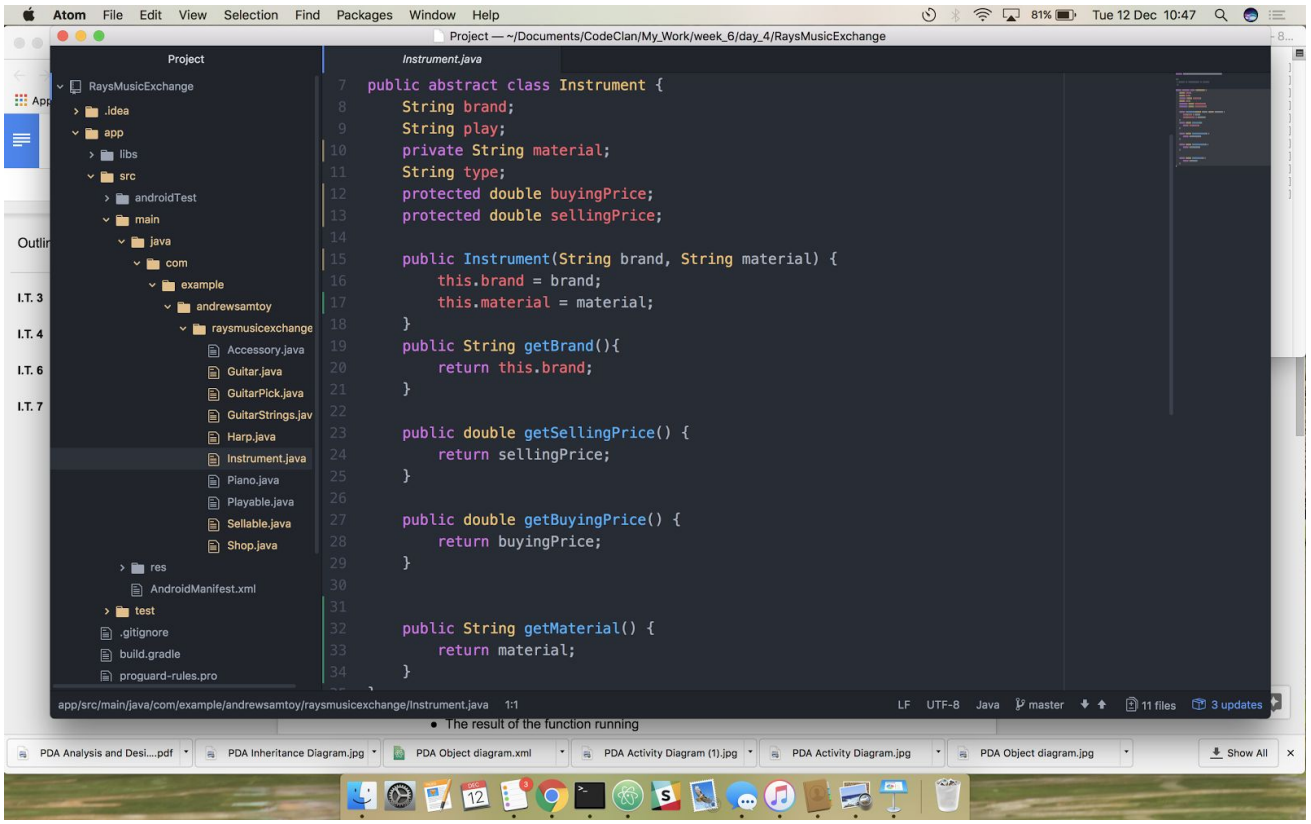
Take a screenshot of an example of encapsulation in a program.



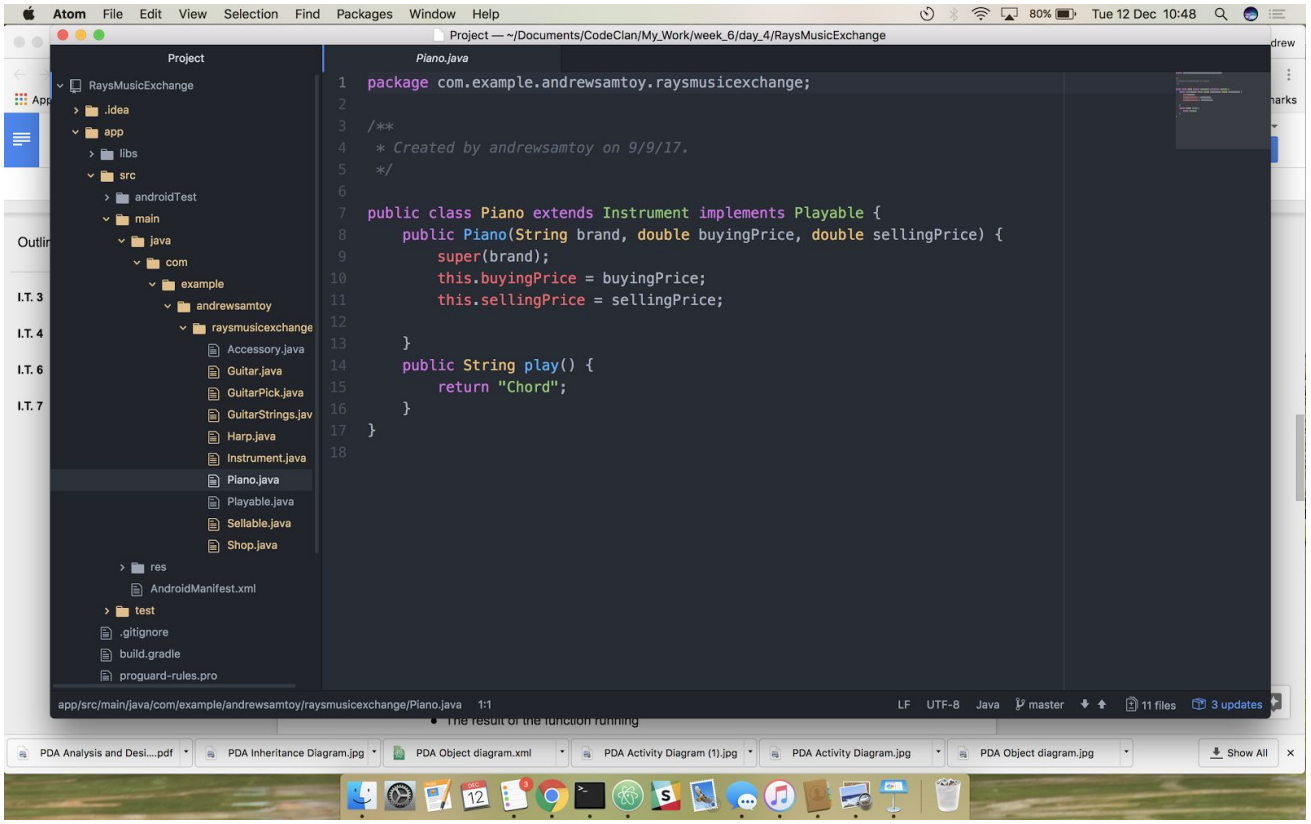
I.T. 2 - Inheritance in a program

Take a screenshot of the use of Inheritance in a program. Take screenshots of:

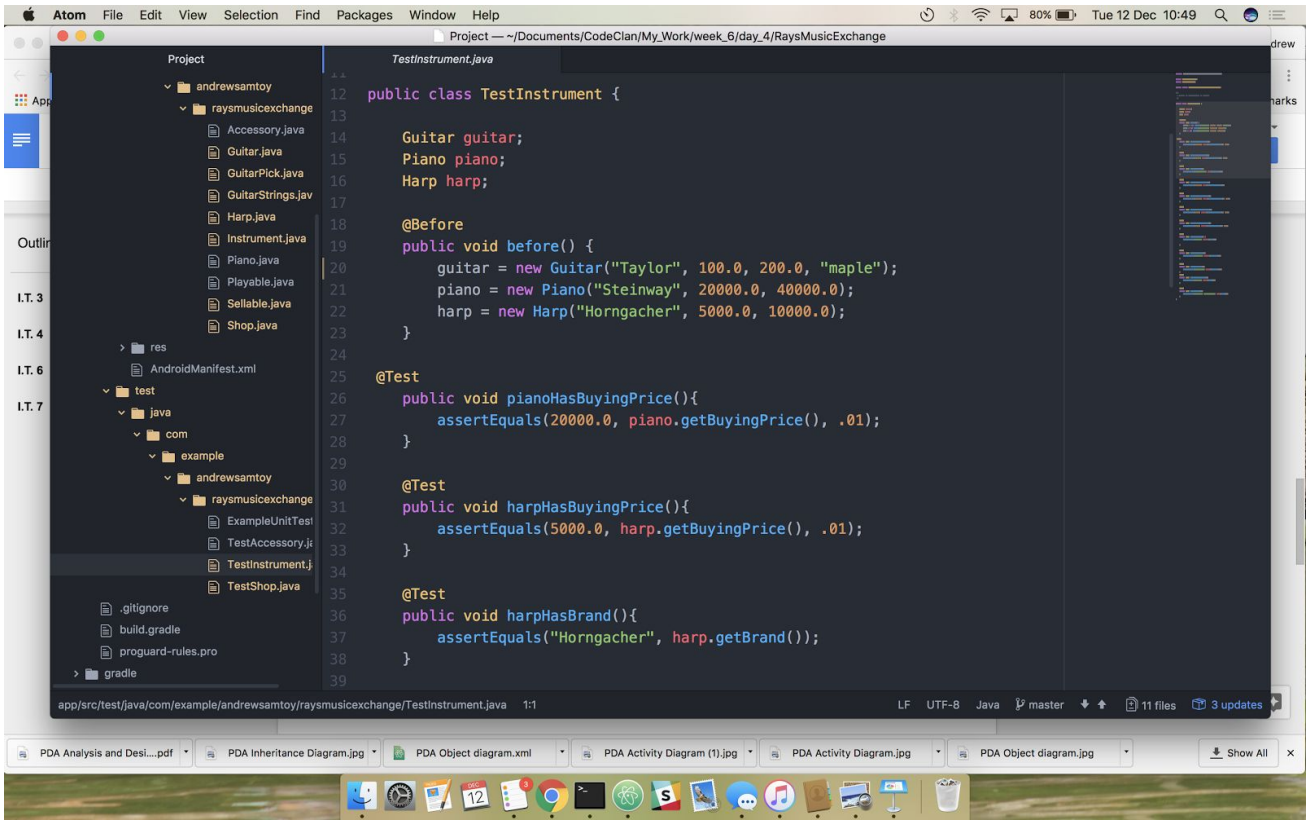
- A Class



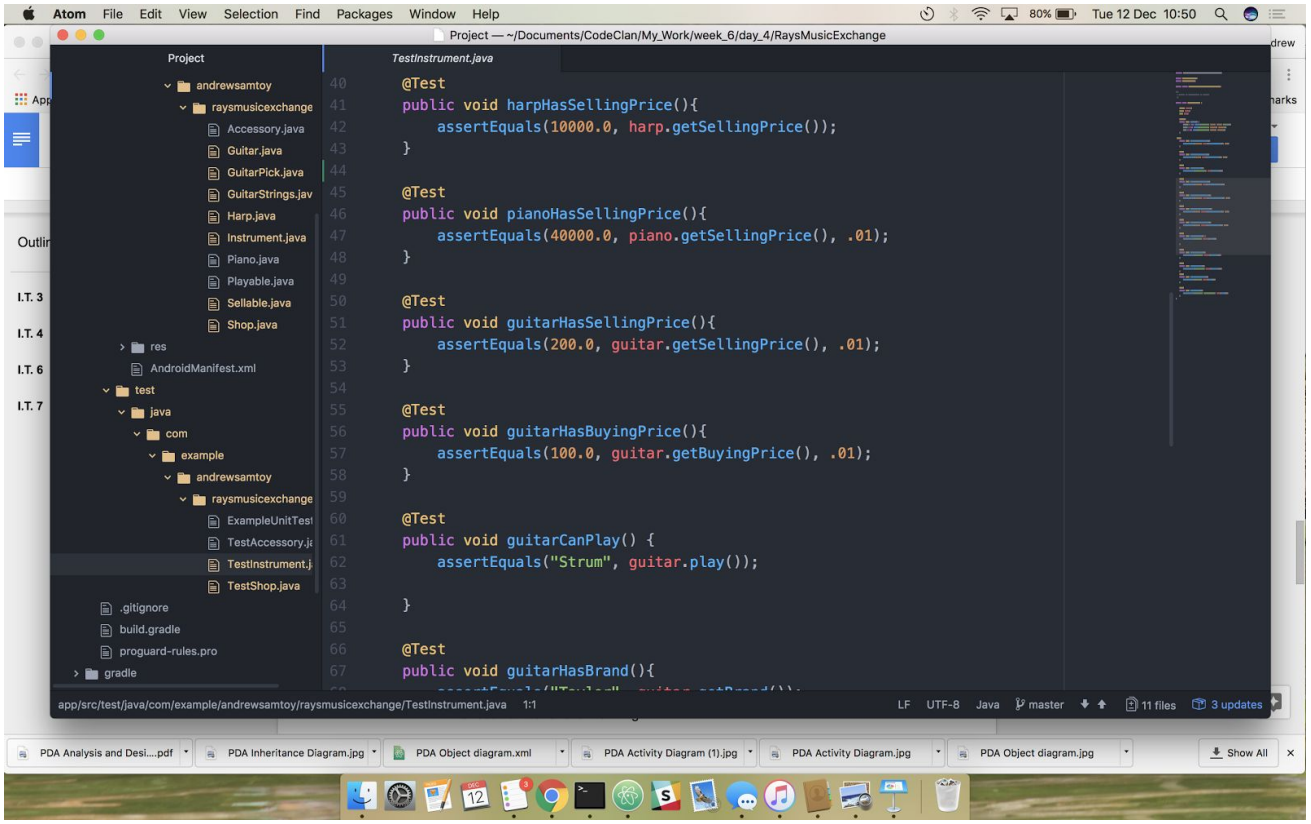
- A Class that inherits from the previous class



- An Object in the inherited class



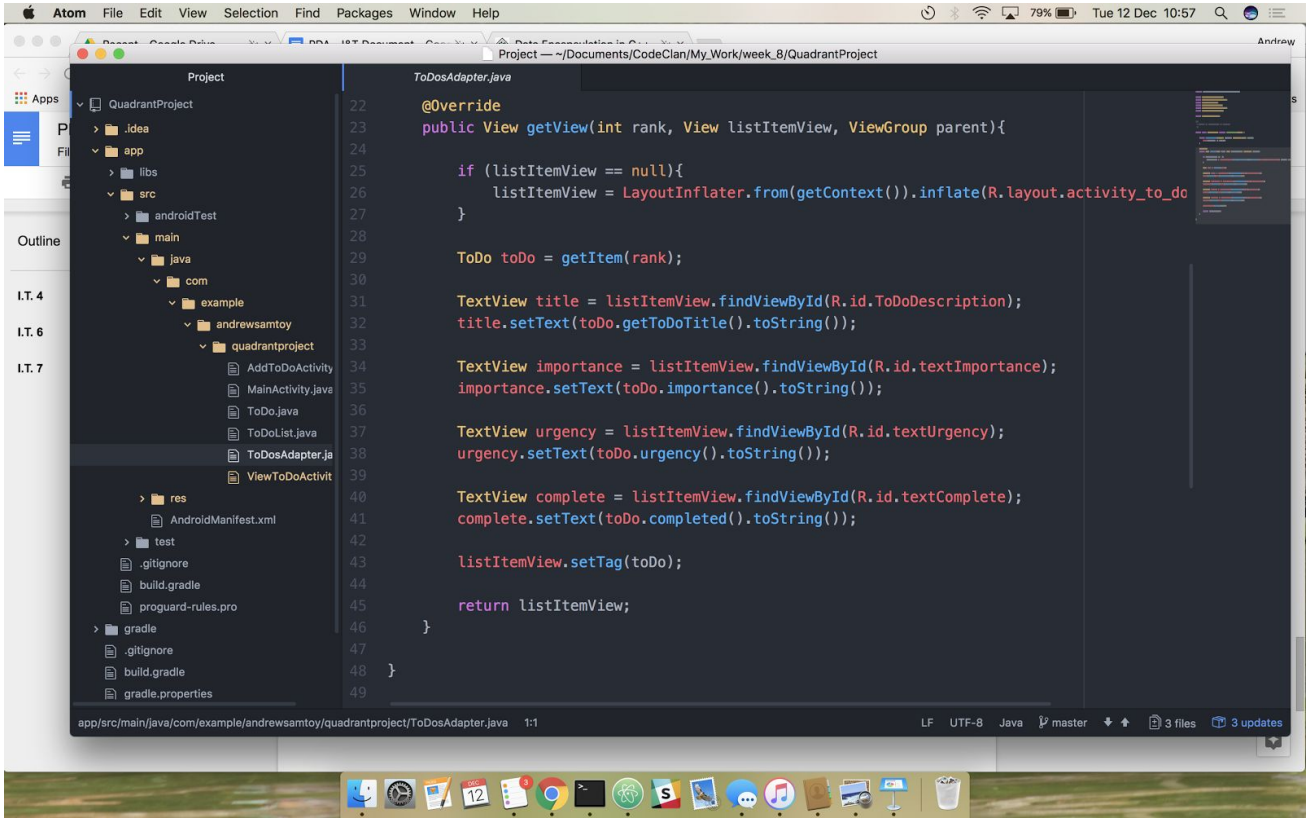
- A Method that uses the information inherited from another class.



I.T. 3

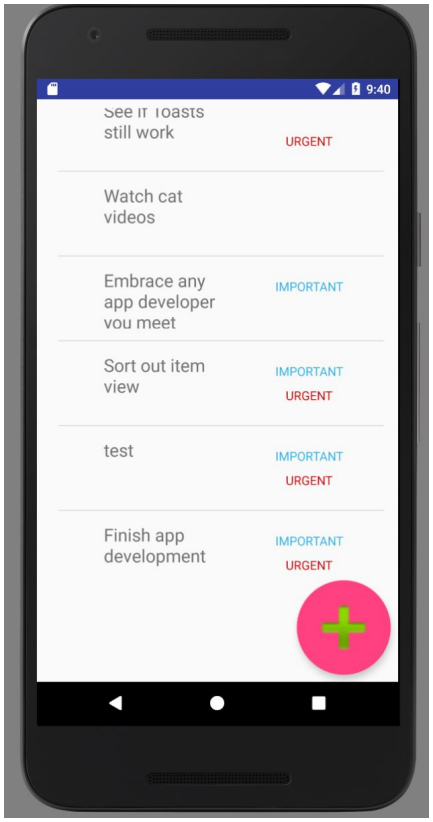
Demonstrate searching data in a program. Take screenshots of:

- Function that searches data



```
@Override
public View getView(int rank, View listItemView, ViewGroup parent){

    if (listItemView == null){
        listItemView = LayoutInflater.from(getContext()).inflate(R.layout.activity_to_do
    }

    ToDo toDo = getItem(rank);

    TextView title = listItemView.findViewById(R.id.ToDoDescription);
    title.setText(toDo.getToDoTitle().toString());

    TextView importance = listItemView.findViewById(R.id.textImportance);
    importance.setText(toDo.importance().toString());

    TextView urgency = listItemView.findViewById(R.id.textUrgency);
    urgency.setText(toDo.urgency().toString());

    TextView complete = listItemView.findViewById(R.id.textComplete);
    complete.setText(toDo.completed().toString());

    listItemView.setTag(toDo);

    return listItemView;
}

}
```

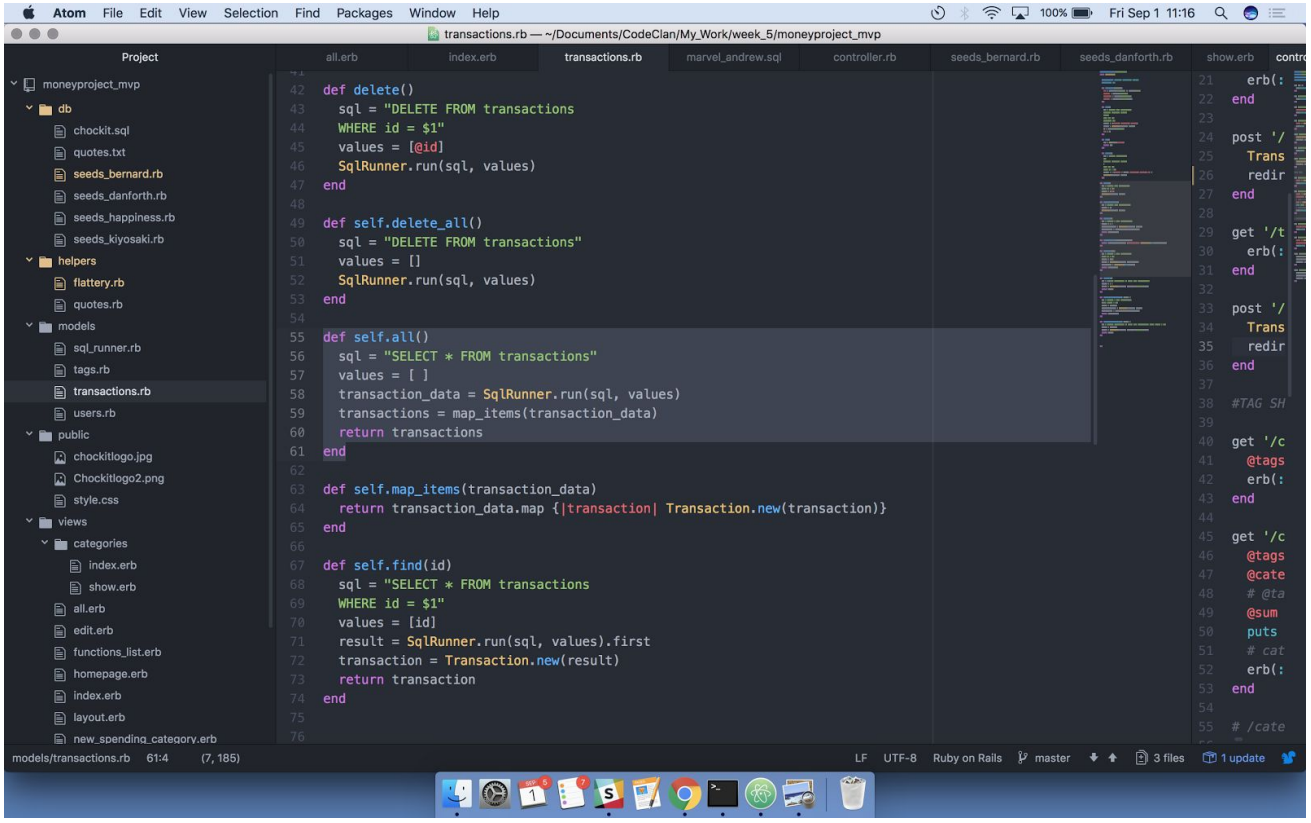
- The result of the function running



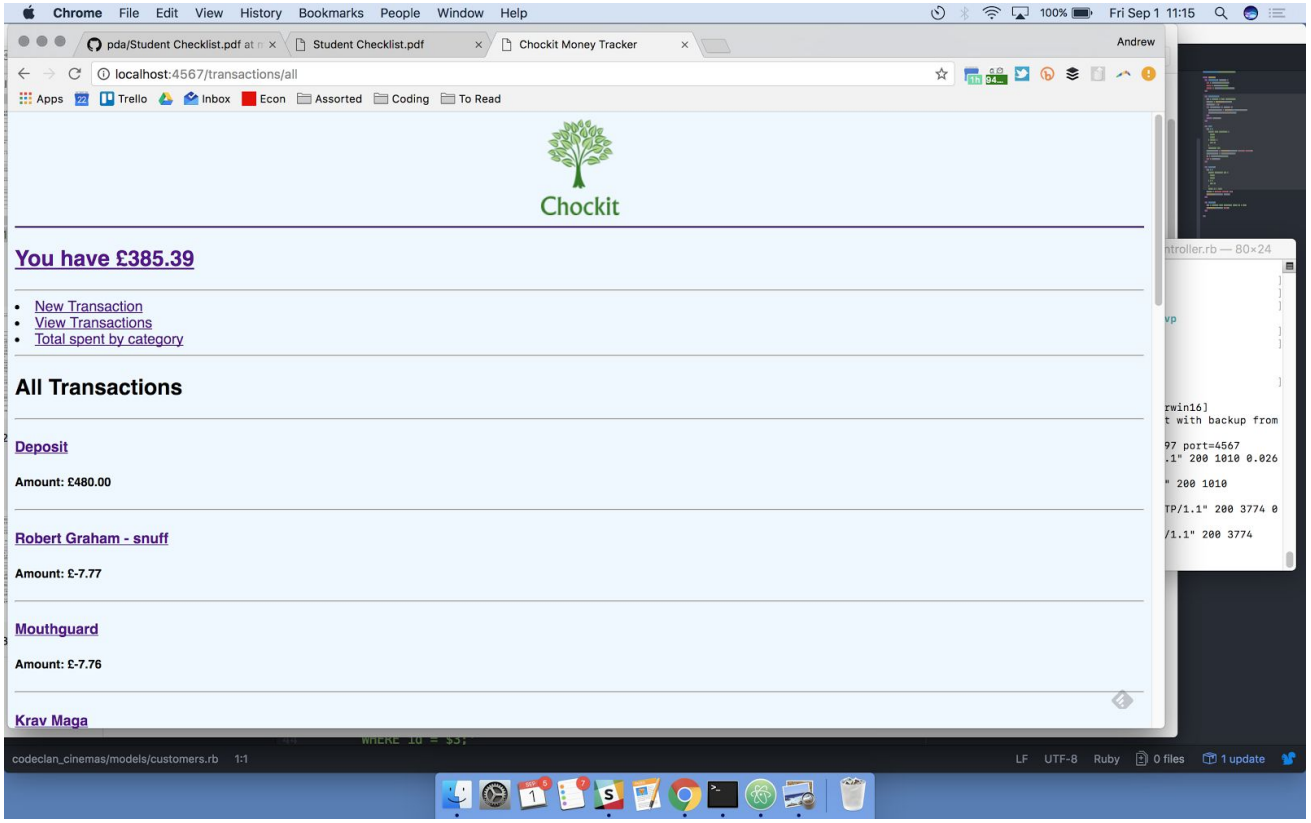
I.T. 4

Demonstrate sorting data in a program. Take screenshots of:

- Function that sorts data



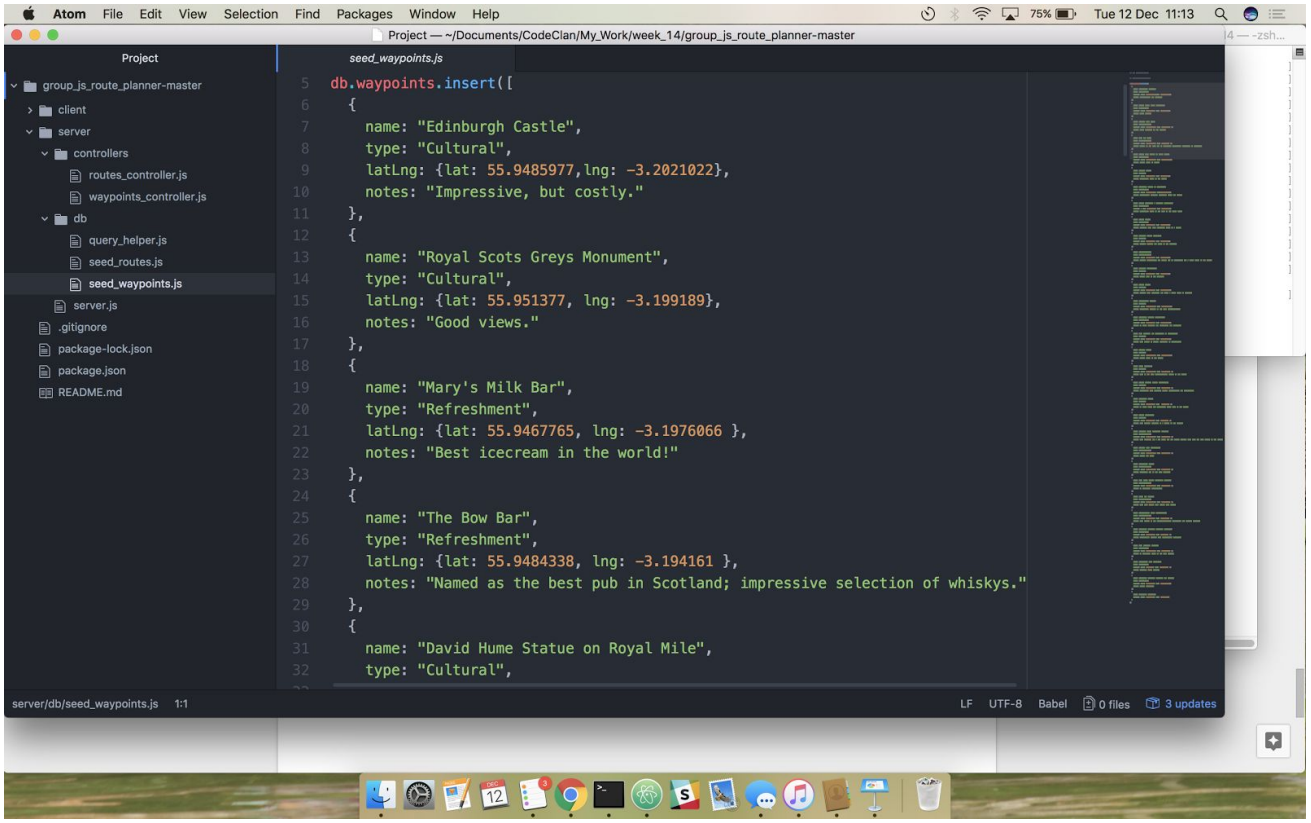
- The result of the function running



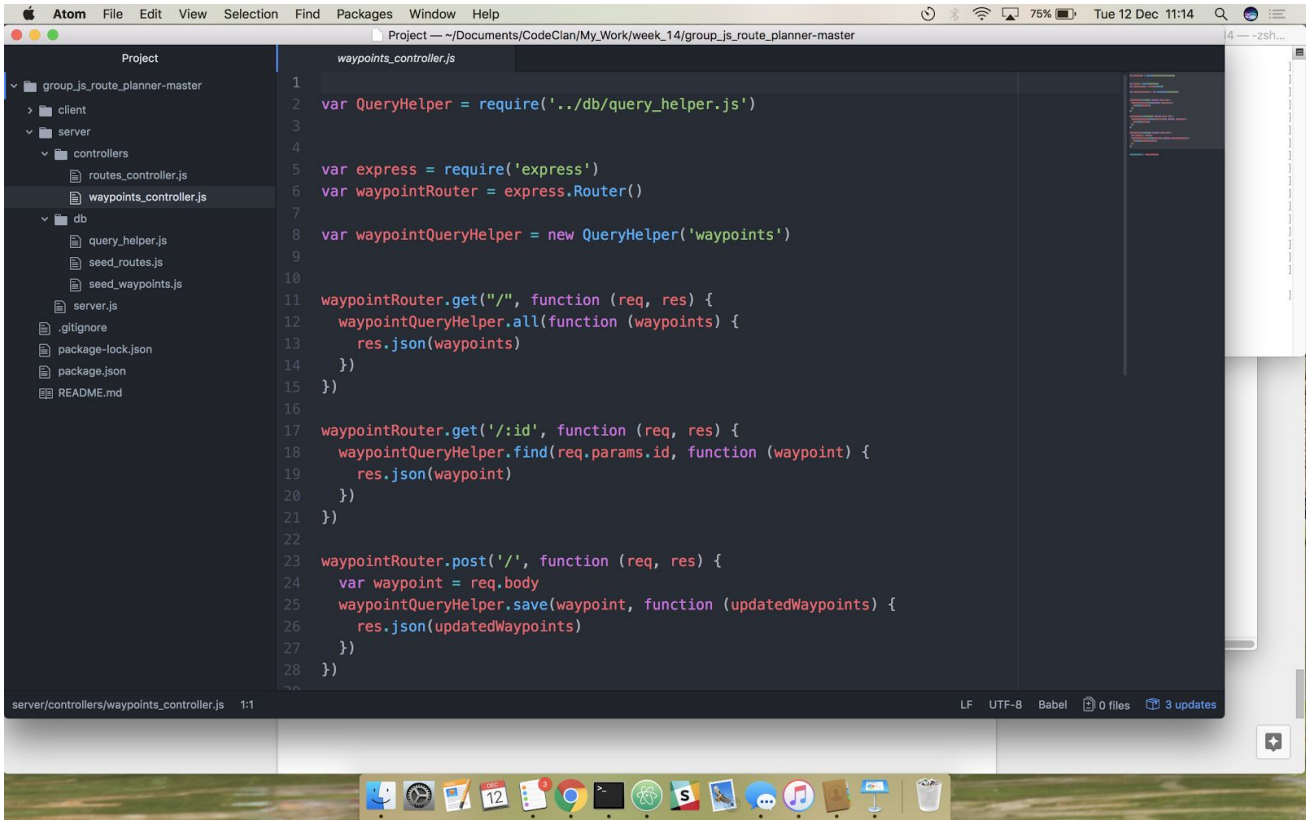
I.T. 5

Demonstrate the use of an array in a program. Take screenshots of:

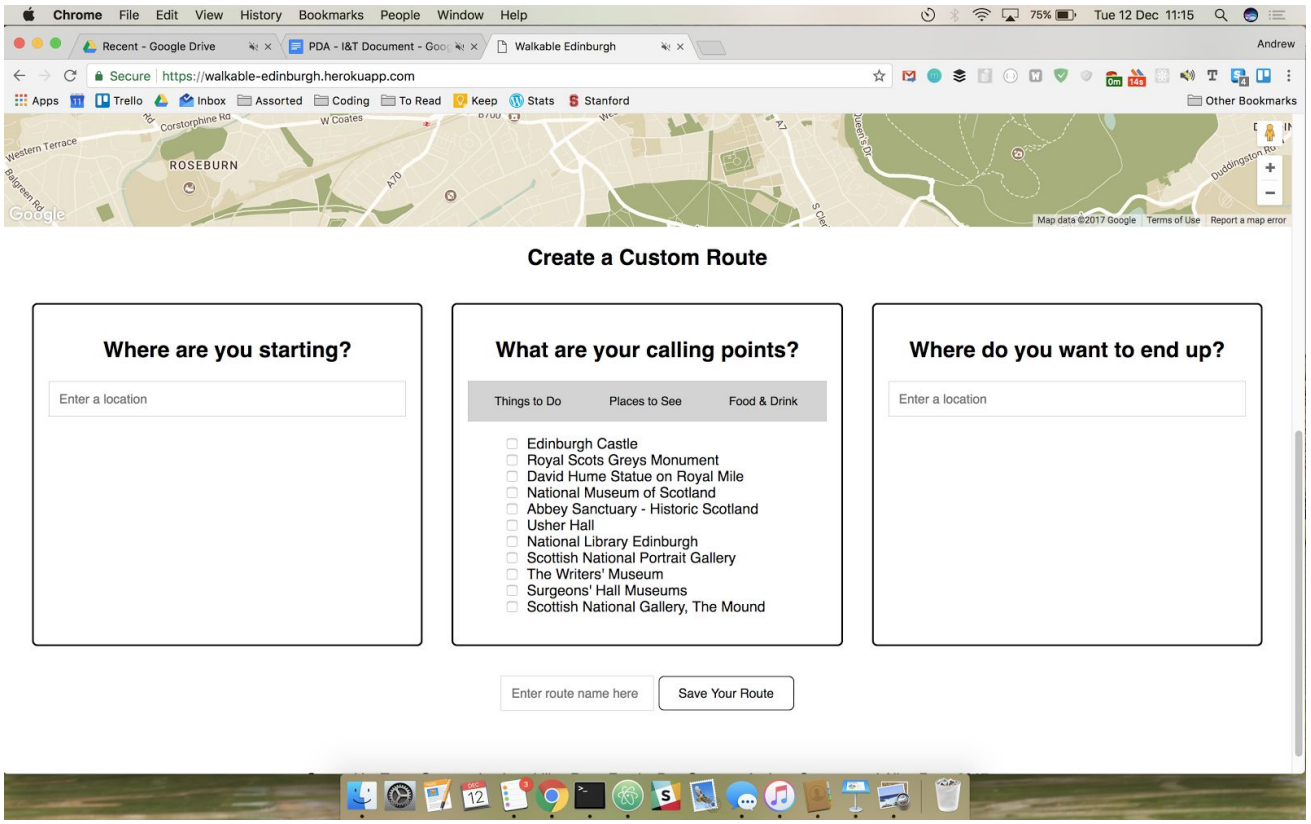
- An array in a program



- A function that uses the array



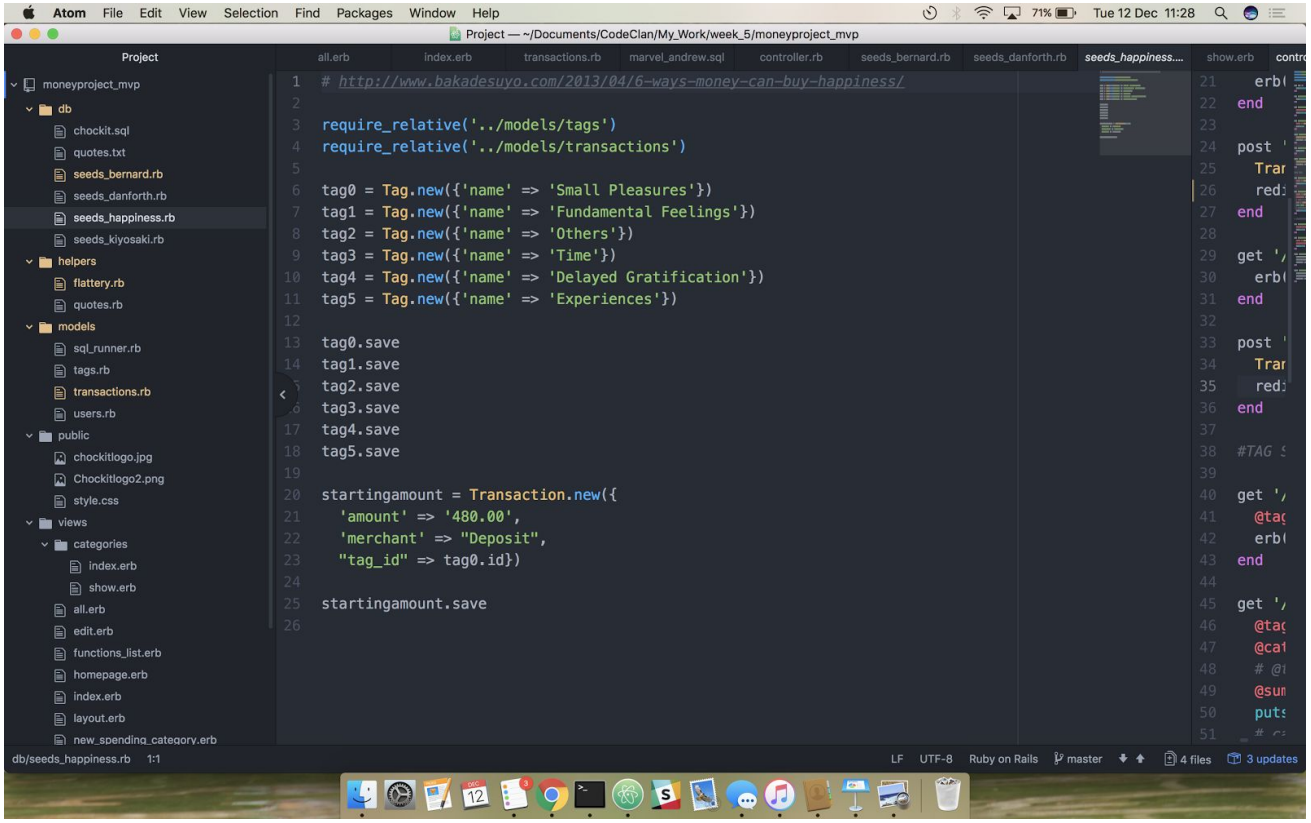
- The result of the function running



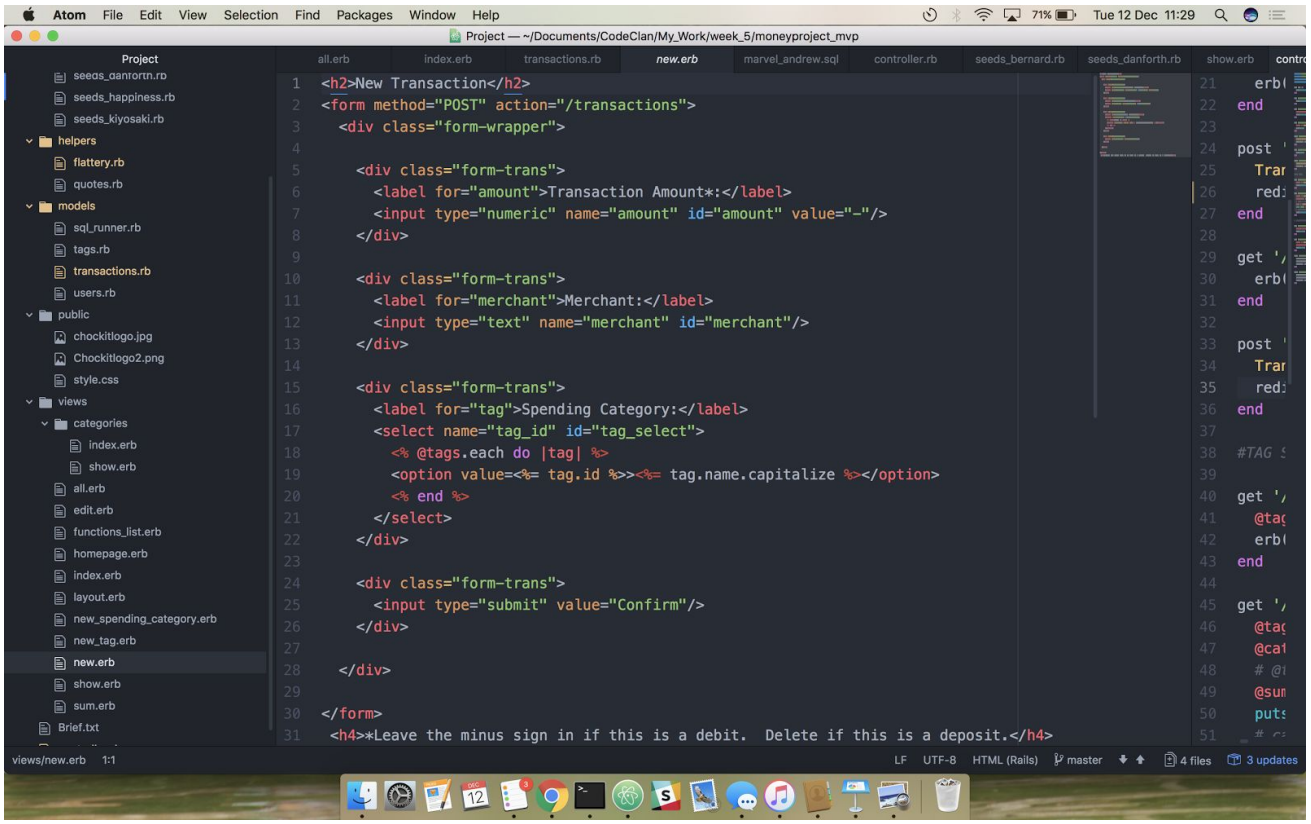
I.T. 6

Demonstrate the use of a hash in a program. Take screenshots of:

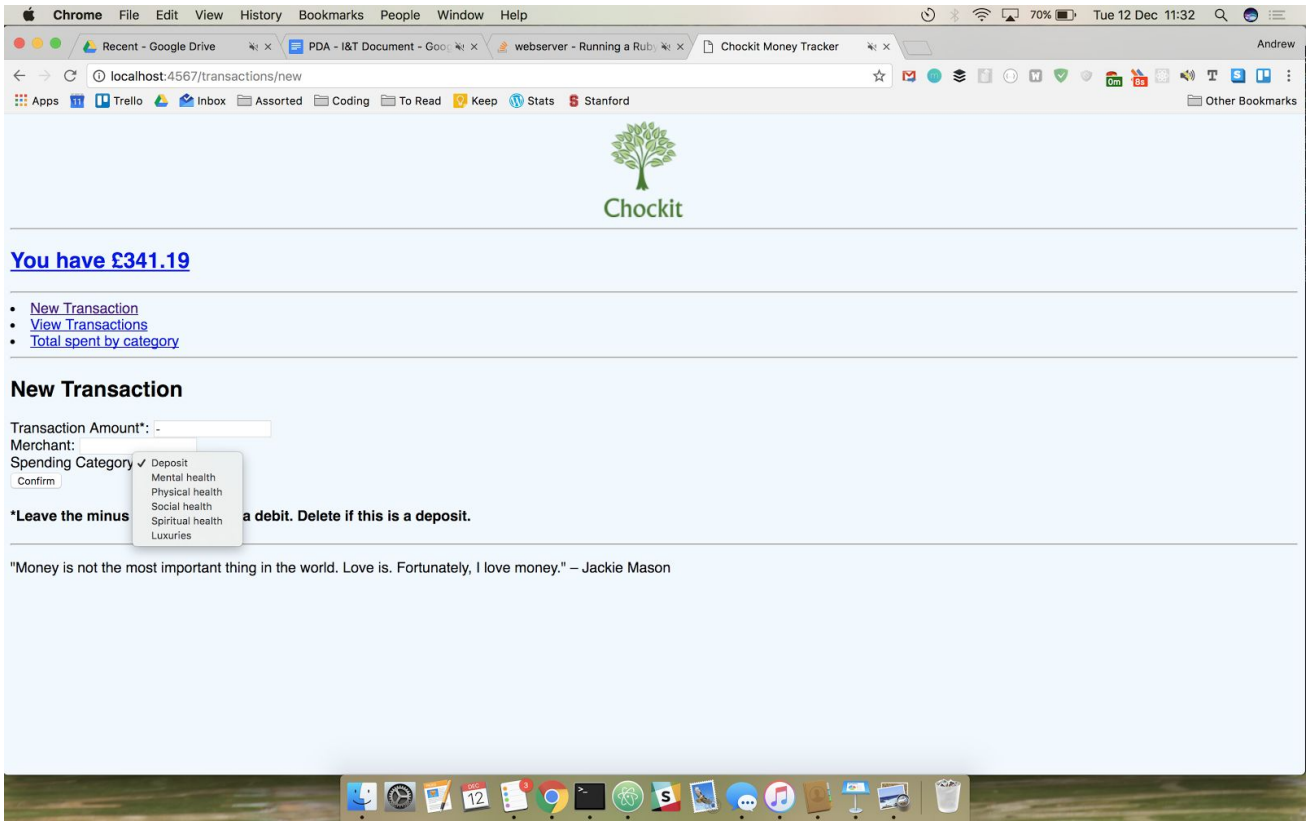
- A hash in a program



- A function that uses the hash

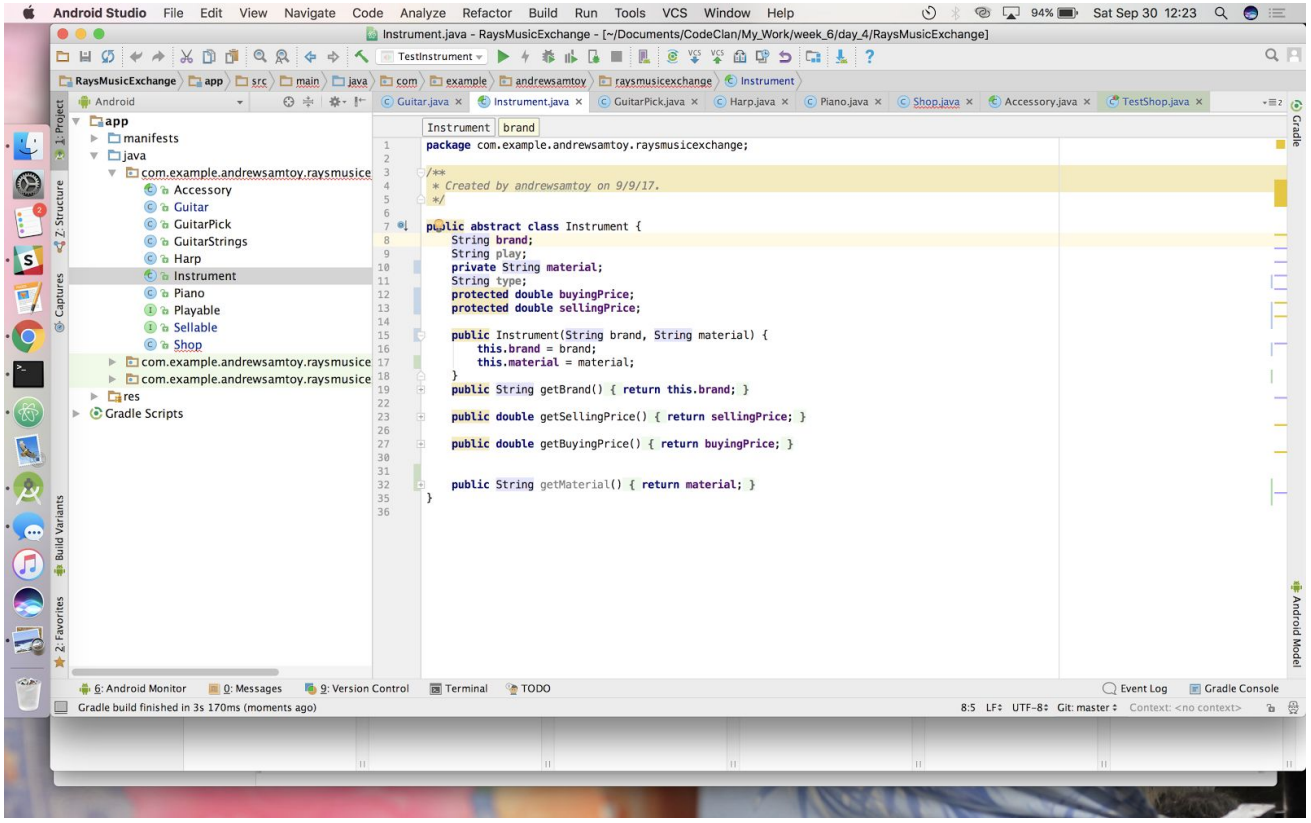


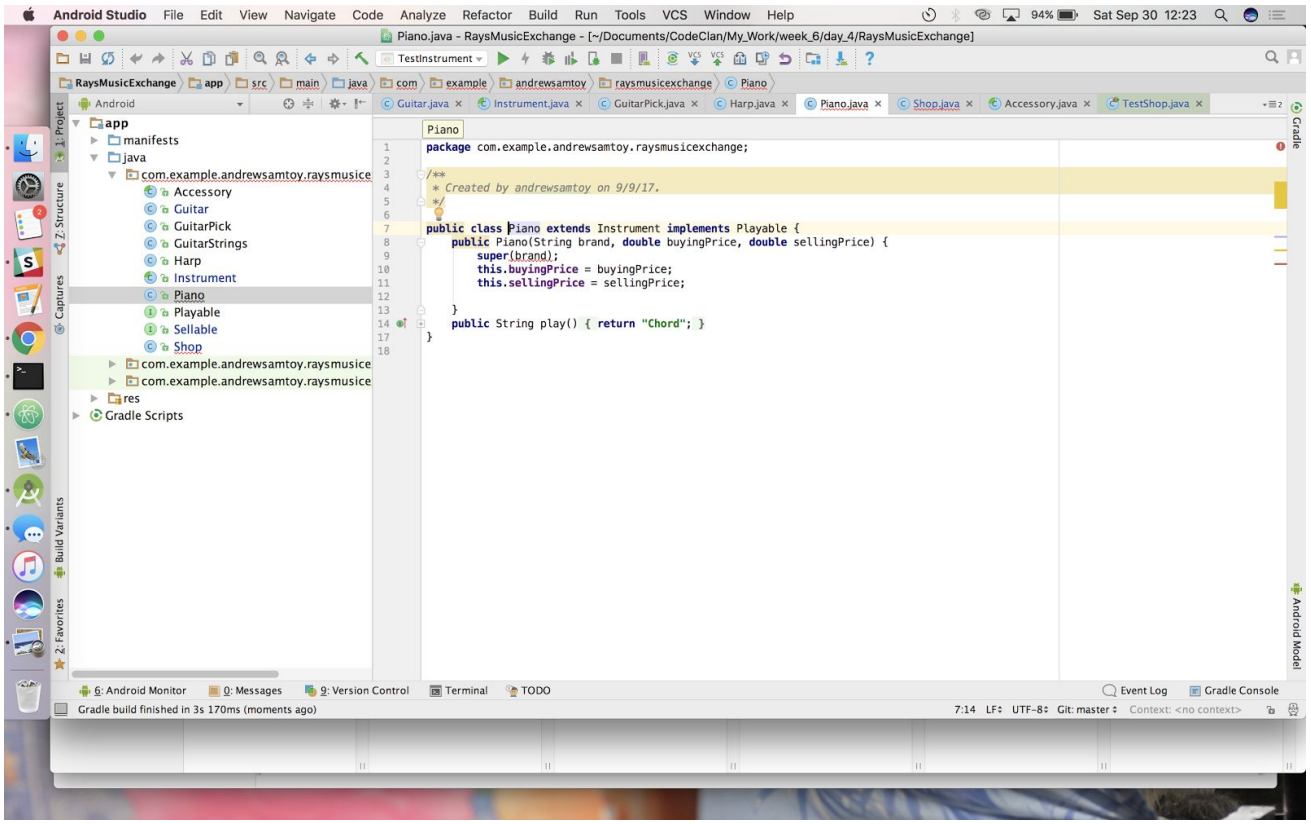
- The result of the function running

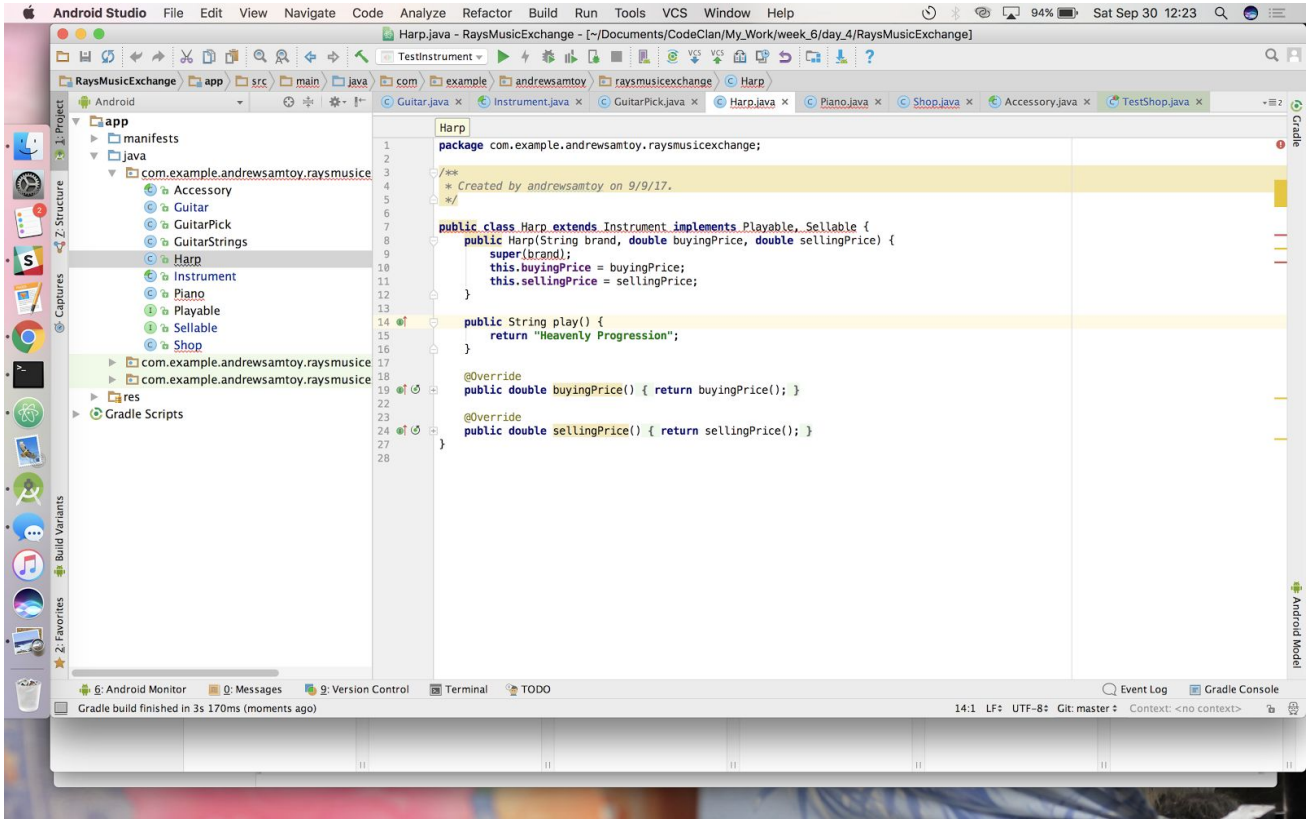


I.T. 7

Demonstrate the use of Polymorphism in a program.




Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
Sat Sep 30 12:23
Piano.java - RaysMusicExchange - [~/Documents/CodeClan/My_Work/week_6/day_4/RaysMusicExchange]
RaysMusicExchange app src main java com example andrewsamtoy raysmusicexchange Piano
Guitar.java Instrument.java GuitarPick.java Harp.java Piano.java Shop.java Accessory.java TestShop.java
Piano
package com.example.andrewsamtoy.raysmusicexchange;
/**
* Created by andrewsamtoy on 9/9/17.
*/
public class Piano extends Instrument implements Playable {
public Piano(String brand, double buyingPrice, double sellingPrice) {
super(brand);
this.buyingPrice = buyingPrice;
this.sellingPrice = sellingPrice;
}
public String play() { return "Chord"; }
}
app
manifests
java
com.example.andrewsamtoy.raysmusicexchange
Accessory
Guitar
GuitarPick
GuitarStrings
Harp
Instrument
Piano
Playable
Sellable
Shop
com.example.andrewsamtoy.raysmusicexchange
com.example.andrewsamtoy.raysmusicexchange
res
Gradle Scripts
6: Android Monitor 0: Messages 9: Version Control Terminal TODO
Event Log Gradle Console
Gradle build finished in 3s 170ms (moments ago)
7:14 LF UTF-8 Git: master Context: <no context>


Android Studio File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
Sat Sep 30 12:23
Harp.java - RaysMusicExchange - [~/Documents/CodeClan/My_Work/week_6/day_4/RaysMusicExchange]
RaysMusicExchange app src main java com example andrewsamtoy raysmusicexchange Harp
Guitar.java Instrument.java GuitarPick.java Harp.java Piano.java Shop.java Accessory.java TestShop.java
Harp
package com.example.andrewsamtoy.raysmusicexchange;
/**
* Created by andrewsamtoy on 9/9/17.
*/
public class Harp extends Instrument implements Playable, Sellable {
public Harp(String brand, double buyingPrice, double sellingPrice) {
super(brand);
this.buyingPrice = buyingPrice;
this.sellingPrice = sellingPrice;
}
public String play() {
return "Heavenly Progression";
}
@Override
public double buyingPrice() { return buyingPrice(); }
@Override
public double sellingPrice() { return sellingPrice(); }
}
app
manifests
java
com.example.andrewsamtoy.raysmusicexchange
Accessory
Guitar
GuitarPick
GuitarStrings
Harp
Instrument
Piano
Playable
Sellable
Shop
com.example.andrewsamtoy.raysmusicexchange
com.example.andrewsamtoy.raysmusicexchange
res
Gradle Scripts
6: Android Monitor 0: Messages 9: Version Control Terminal TODO
Event Log Gradle Console
Gradle build finished in 3s 170ms (moments ago)
14:1 LF UTF-8 Git: master Context: <no context>