```
 1 import streamlit as st
 2 import numpy as np
 3 import altair as alt
 4 import pickle
 5
 6 @st.cache
 7 def load_data():
 8     with open('data.pkl', 'rb') as f:
 9         data = pickle.load(f)
10     return data
11 data = load_data()
12 data['ZIPCODE'] = data['ZIPCODE'].apply(np.int64)
13
14 def show_page2():
15     st.markdown('<h4 style = "text-align: center;">
   Choose one or more zipcodes to view median prices for
    houses sold</div>',
16                 unsafe_allow_html=True)
17     subset_data = data
18  #ZIPCODE using multiselect streamlit tool
19     zipcode_input = st.multiselect('Zip Code',data.
   groupby('ZIPCODE').count().reset_index()['ZIPCODE'].
   tolist())
20
21     if len(zipcode_input)>0:
22         subset_data = data[data['ZIPCODE'].isin(
   zipcode_input)]
23
24     st.markdown('<h4 style = "text-align: center;">
   Median Phoenix Home Prices by Zipcode for previous 12
    months</div>',
25                 unsafe_allow_html=True)
26
27     prices_graph = alt.Chart(subset_data).mark_point
   ().encode(
28         x=alt.X('SOLDDATE',  title='Sold Date'),
29         y=alt.Y('PRICE:Q', title='Price'),
30         color = 'ZIPCODE:N',
31     ).properties(
32         width = 800,
33         height = 600
```

```
34      )
35
36      prices_line = prices_graph.transform_regression('
    SOLDDATE','PRICE').mark_line()
37      graph = prices_graph+prices_line
38      st.altair_chart(graph)
39
40      st.write(subset_data)
41
42
43
```