```
# Import required libraries
import pandas as pd
import dash
import dash html components as html
import dash core components as dcc
from dash.dependencies import Input, Output
import plotly.express as px
# Read the airline data into pandas dataframe
airline data = pd.read csv('https://cf-courses-data.s3.us.cloud-object-
storage.appdomain.cloud/IBMDeveloperSkillsNetwork-DV0101EN-
SkillsNetwork/Data%20Files/airline data.csv',
                            encoding = "ISO-8859-1",
                            dtype={'Div1Airport': str, 'Div1TailNum': str,
                                   'Div2Airport': str, 'Div2TailNum': str)
# Create a dash application
app = dash.Dash(__name__)
# Build dash app layout
app.layout = html.Div(children=[ html.H1('Flight Delay Time Statistics',
                                style={'textAlign': 'center', 'color': '#503D36',
                                'font-size': 30}),
                                html.Div(["Input Year: ", dcc.Input(id='input-year', value='2010',
                                type='number', style={'height':'35px', 'font-size': 30}),],
                                style={'font-size': 30}),
                                html.Br(),
                                html.Br(),
                                # Segment 1
                                html.Div([
                                        html.Div(dcc.Graph(id='carrier-plot')),
                                        html.Div(dcc.Graph(id='weather-plot'))
                                ], style={'display': 'flex'}),
                                # Segment 2
                                html.Div([
                                        html.Div(dcc.Graph(id='nas-plot')),
                                        html.Div(dcc.Graph(id='security-plot'))
                                ], style={'display': 'flex'}),
                                # Segment 3
                                html.Div(dcc.Graph(id='late-plot'), style={'width':'65%'})
""" Compute info function description
This function takes in airline data and selected year as an input and performs computation for
creating charts and plots.
Arguments:
   airline data: Input airline data.
   entered year: Input year for which computation needs to be performed.
Returns:
   Computed average dataframes for carrier delay, weather delay, NAS delay, security delay, and late
aircraft delay.
def compute info(airline data, entered year):
   # Select data
   df = airline_data[airline_data['Year']==int(entered_year)]
   # Compute delay averages
   avg_car = df.groupby(['Month','Reporting_Airline'])['CarrierDelay'].mean().reset_index()
   avg weather = df.groupby(['Month', 'Reporting Airline'])['WeatherDelay'].mean().reset index()
   avg_NAS = df.groupby(['Month','Reporting_Airline'])['NASDelay'].mean().reset_index()
   avg_sec = df.groupby(['Month','Reporting_Airline'])['SecurityDelay'].mean().reset_index()
```