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03/21/2021

CSC\_157\_Lab\_012

**SOURCE CODE:**

*import* pickle

*from* flights *import* \*

*from* datetime *import* datetime

def standTime(*militaryTime*):

*# Datetime library formats explained:*

*# %H - Hour (24-hour fomrat)*

*# %M - Minute*

*# %I - Hour (12-hour format)*

*# %p - AM or PM*

time = datetime.strptime(str(militaryTime), '%H%M').strftime('%I:%M %p')

*return* time

def main():

fl = pickle.load(open("target.p", "rb"))

response = "Y"

*while* (response == "Y" or response == "y"):

answer = input("How would you like to sort the available flights?"

"\n1) Date"

"\n2) Destination"

"\n3) Cost"

"\n4) Airline"

"\n5) Time\n"

)

*if* (answer == "1"):

d = input("Please enter a date (MM/DD)\n")

match = False

*for* i *in* range(len(fl)):

*if* (d == fl[i].date):

match = True

print(

fl[i].date, standTime(fl[i].time),

fl[i].destination, "$", "%.2f" % fl[i].cost, fl[i].airline)

*if* (match == False):

print("No matches found")

*elif* (answer == "2"):

dest = input("Please enter a US airport code\n")

*for* i *in* range(len(fl)):

*if* (dest == fl[i].destination):

print(

fl[i].date, standTime(fl[i].time),

fl[i].destination, "$", "%.2f" % fl[i].cost, fl[i].airline)

*elif* (answer == "3"):

c = float(input("Please enter a cost in US dollars\n"))

*for* i *in* range(len(fl)):

*if* (c >= fl[i].cost):

print(

fl[i].date, standTime(fl[i].time),

fl[i].destination, "$", "%.2f" % fl[i].cost, fl[i].airline)

*elif* (answer == "4"):

airline = input("Please enter an Airline\n")

*for* i *in* range(len(fl)):

*if* (airline == fl[i].airline):

print(

fl[i].date, standTime(fl[i].time),

fl[i].destination, "$", "%.2f" % fl[i].cost, fl[i].airline)

*elif* (answer == "5"):

time = (

input("Please enter a time (Standard US format, e.g., 12:00 PM)\n"))

*for* i *in* range(len(fl)):

*if* (time == standTime(fl[i].time)):

print(

fl[i].date, standTime(fl[i].time),

fl[i].destination, "$", "%.2f" % fl[i].cost, fl[i].airline)

*else*:

print("------------------------------------\n"

"Invalid Response. Please try again."

"\n------------------------------------")

response = input("Would you like to go again (Y/N)? ")

main()

**OUTPUT (2 screenshots) :**

Text

Description automatically generated

Text

Description automatically generated