

Python Functions

1. John would like to create a function to check whether given number is positive or negative or neutral. Help him to write an independent function and pass different inputs to the function and check its behaviour.
2. Mr. Ashok like to create a flight ticket booking application. To book a flight, user should enter his / her name, DOB, address and passport number followed by Start city, destination city and date of travel. Here are the constraints -
 1. Name should be all in upper case and it should be free from special characters or numbers. His application only allow names of length ranges from 5 to 30 max.
 2. DOB should be in a format of DD-MM-YYYY. Other formats not allowed.
 3. Passport number is only of 8 digits and should start with 'P' followed by numbers.
 4. Start city and destination city should NOT be same. Here are the constraints -
 1. Start city / End city should be any one of these ["Paris", "Japan", "China"]
 5. Date of travel should be in format [DD-MM-YYYY]Write functions to validate all those above constraints and if all validations successful, return "Flight Ticket Booked", else return respective error message. (Example: Invalid Passport number if passport number validation fails etc....)
3. Create a function to compute sum of digits. Call this sum of digits function to find the sum of digits of numbers ranges from 1001 to 22000.