cimport re  
  
  
# Class to handle the booking of movie tickets  
class MovieTicketBooking:  
 def \_\_init\_\_(self, movie\_name, tickets, email):  
 self.movie\_name = movie\_name  
 self.tickets = tickets  
 self.email = email  
  
 # Method to validate email format  
 def validate\_email(self):  
 # Regular expression for basic email validation  
 email\_regex = r'^[a-zA-Z0-9\_.+-]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-.]+$'  
 if re.match(email\_regex, self.email):  
 return True  
 return False  
  
 # Method to confirm the booking  
 def confirm\_booking(self):  
 if not self.validate\_email():  
 return f"Invalid email address: {self.email}"  
  
 return f"Booking confirmed for {self.tickets} ticket(s) for the movie '{self.movie\_name}'. A confirmation email has been sent to {self.email}."  
  
  
# Class to manage the overall movie ticket booking system  
class BookingSystem:  
 def \_\_init\_\_(self):  
 self.bookings = []  
  
 def book\_ticket(self, movie\_name, tickets, email):  
 new\_booking = MovieTicketBooking(movie\_name, tickets, email)  
 booking\_confirmation = new\_booking.confirm\_booking()  
 self.bookings.append(new\_booking)  
 return booking\_confirmation  
  
  
# Example usage  
if \_\_name\_\_ == "\_\_main\_\_":  
 # Create an instance of the BookingSystem  
 system = BookingSystem()  
  
 # Simulate user input for movie booking  
 movie\_name = input("Enter the movie name: ")  
 tickets = int(input("Enter the number of tickets: "))  
 email = input("Enter your email: ")  
  
 # Book the ticket  
 result = system.book\_ticket(movie\_name, tickets, email)  
 print(result)

