```
import dateline
available - YOUNS = [101, 109, 108, 104, 105]
booked - YOUNS = 39
del book - room ( room number, start - date, end -date,
                                customer- hane)
   if room_number not in available_rooms;
       Print ( sorry, that room is not available.")
   213e :
      available_ rooms. remove (room-number)
      booked - rooms [room - number] = 9
      'Start - date': Start - date,
       'end date': end date,
      'customer-name': customer-name
    Print (f "Room & room-number & has been booked for
      3 customer-name 3 from 3 start-date ? for
   gend-date ?. ")
def book-half-room (room-number, Start-date, end-date
                 customer-name):
    if room - number not in available - rooms:
          print ("sorry , that room is not available.")
    0180:
        available - TOOMS. TENOVE (TOOK-number)
```

booked rooms [soon - number] = 3

```
'Start-date : Start-date,
  'end-date': end-date,
  'custoner_name_1': customer_name,
  'customer_name = 2 : None
print (f" Half of room & room_number 3 has been booked
   for & customer-name 3 from & start-date 3 to gend-date?)
def allot - half - room (room:number, Start - date, erd-dole,
            customer - name):
     if room - number not in booked - rooms:
         Print ("Sorry, that room is not booked.")
    elif booked - rooms [room - number ] . get ( customer_
               name - 2') is not more:
       Print ( Sorry, that half of the room is already
    else:
       booked_rooms [room-number] [ customer-name-2]
               = customer - name
      Print ( f" The other half of room groom_number?
         has been alloted to & customer - name & from
       3 start - date 3 to gend - date 3.")
del book - full - day (room - number, booking - date,
                               customer - name):
      if room-number not in available room;
         Print ("Borry, that room is not available.")
```

```
available - rooms. remove (room - number)
    booked - rooms [ room - number ] = ?
        'Start-date': booking - date,
        'end - date': booking -date + datetime. timetal
                               (day3=1),
        customer-name: customer-name
   Print (f Room groon - number & has been booked for
         & customer - name 3 on & booking - date 3. )
def cancel - room (room - number):
     if room-number not in booked-rooms.
        Print ("Borry, that room is not booked.")
     else:
        available_ rooms. append (room-number)
        del booked- rooms [ room - number ]
       Print (f "Room Sroom-number) has been
                                     Cancelled. )
def calculate - extra - pay (moon - number, end -date):
    if room-number not in booked - moons:
        Print ("gorry, that room is not booked.")
   elif end - date < booked - rooms [room - number]
                                         ['end_date']:
```

e13e:

print ("Borry, the end date cannot be before the original booking end date.")

e13e:

extra-days = (end-date - booked - rooms[room = number] ['end-date']).days

book-full-day (101, datetime.date (2023,5,13), "abe")
book-half-room (102, datetime.date (2023,5,14), "abe")
allot-haff-room (102, datetime.date (2023,5,14),
datetime.date (2023,5,15), "abe")

book- тоом (103, datetime.date (2023, 5, 16), datime. date (2023, 5, 18), "abc")

Cancel - 4004 (104)

Calculate - extra - pay (101, datetime date (2023, 5, 15))