1. Consider 2-wheeler workshop where several workers assemble details of some mechanism. When each of them completes their work, they put the details together. Assume the assembling is done in a serialized manner starting from engine set-up, accelerator-brake-clutch set-up, body assembling, steering set-up. Implement a Go routine program such that the Engine set-up work begins and after its completion the next work begins.
2. Implement a hotel room booking server/client program using RPC. The hotel has 5 room types with different prices.

\* 10 rooms of type 0 which are single rooms that costs Rs.1000 a night

\* 20 rooms of type 1 which are double rooms that costs Rs.1500 a night

\* 5 rooms of type 2 which are twin rooms that costs Rs.2000 a night

\* 3 rooms of type 3 which are triple rooms that costs Rs.3000 a night

\* 2 rooms of type 4 which are quad rooms that costs Rs.5000 a night

The services provided by the server for the client

a. Client can book a room of the type available.

b. Client should be able to cancel the booked room.

c. Enquire the status of the room availability.

After accessing the service, the Client should print the details with the server timestamp