**Design the required class/es so that the following output is generated.**

| Driver Code | Output |
|---|---|
| `user1 = User("Brooks", "Banani", "Shared")`<br>`user2 = User("Jocelyn", "Uttara")`<br>`user3 = User("Robert", "Gulshan", "Shared")`<br>`user4 = User("Langdon", "Mohakhali", "Shared")`<br>`user1.status()`<br>`user2.status()`<br>`user3.status()`<br>`user4.status()`<br>`print("----------")`<br>`car1 = Uber("0K32BH", "Shared", "Mohakhali", "Banani", "Nikunja", "Uttara")`<br>`car1.details()`<br>`print("----------")`<br>`car1.pick(user1,user2,user3,user4)`<br>`print("----------")`<br>`user1.status()`<br>`user2.status()`<br>`user3.status()`<br>`user4.status()`<br>`print("----------")`<br>`car2 = Uber("5GD2BD", "Single", "Uttara")`<br>`car3 = Uber("4T12FR", "Shared", "Gulshan", "Bashundhara")`<br>`car2.details()`<br>`car3.details()`<br>`print("----------")`<br>`car2.pick(user2, user3)`<br>`print("----------")`<br>`car3.pick(user3)`<br>`print("----------")`<br>`user2.status()`<br>`user3.status()` | `Status: Brooks is looking for a shared ride!`<br>`Status: Jocelyn is looking for a single ride!`<br>`Status: Robert is looking for a shared ride!`<br>`Status: Langdon is looking for a shared ride!`<br>`----------`<br>`Car number: 0K32BH`<br>`Type: Shared`<br>`Routes: Mohakhali --> Banani --> Nikunja --> Uttara`<br>`----------`<br>`Brooks has been picked up.`<br>`Jocelyn is looking for a different ride.`<br>`Robert's destination is different from this car's route.`<br>`Langdon has been picked up.`<br>`----------`<br>`Status: Brooks boarded in car 0K32BH!`<br>`Status: Jocelyn is looking for a single ride!`<br>`Status: Robert is looking for a shared ride!`<br>`Status: Langdon boarded in car 0K32BH!`<br>`----------`<br>`Car number: 5GD2BD`<br>`Type: Single`<br>`Routes: Uttara`<br>`Car number: 4T12FR`<br>`Type: Shared`<br>`Routes: Gulshan --> Bashundhara`<br>`----------`<br>`Jocelyn has been picked up.`<br>`Robert is looking for a different ride.`<br>`----------`<br>`Robert has been picked up.`<br>`----------`<br>`Status: Jocelyn boarded in car 5GD2BD!`<br>`Status: Robert boarded in car 4T12FR!` |