```
public class Parling Agon't extends thread ?
   private final Panking Queue pool;
   private final string agent Name;
   public Parking Agent (string agentname, Parking Queue poul) {
       this agent Name = agent Name;
       this pool = pool;
  @overnide
   public void run() {
     while (force) {
        Registrantanking request = pook, getPanking Request();
        it (request != NUW) {
         System.out println (agent Name + " is processing can"
                            + request, get can Id ());
        request process ();
```

```
public class Registar Panking [ alternal . Lite and town
    provate static int count = 1;
    private final int canID = ; milled and silling
    public Registar Parking () {
       this carID = count++;
   public int getcanIO() {
      return canIO;
   public void process(){
      System out println (" can " + canID+" Is is being parked ")
      try {
          Thread sleep (1000);
& ( a mit 3 mil bakguma
 catch (Interpopped Exception e) {
         Thread. current Thread ( 17. interrupt ();
    system.out. println ("can" + con ID + "has been panked. In
```

```
import Java. util. LinkedList, That when the string
import java util Queue;
public class Parking Queve {
  private final Queae (Registanfanking) queue = new LinkedLisk>U,
  public synchronized void add Panking Request
                   (Registanfanking nequest) {
     queue. offer (nequest);
     notify All ();
public syncronized Registanpanking getlanking Request ()
    while (queue. is Empty ()) {
          wait ();
        3 cotch (Interrupted Exception e) }
            Thread.current Thread () interrupt ();
            neturn null;
   neturn queve. poll ();
```

```
imporat javautil. Scanner;
public class Main ?
 public static void main (string [ ] angs) {
    parkingQueue pool = new ParkingQueue ();
    new Parking Agent ("Agent -1"), pool). stant (),
    new Panking Agent ("Agent - 2", pook). start ();
   new Panking Agent ( " Agent - 3", pool) . Start ();
   Scarner sc=new Scarner (System.in).
   int request count = 0,
   while (nequestCount < 10) {
      System. out. println ("In Press Enten to simulate can
                       annival (type - 1 to exit):");
     string input = sc. next Line ( );
     1'5 (input-equals ("-1"))}
        system-out printli ("Exiting ... ");
        break;
   Registan Panking parking Request = new Registan Panking ();
  pool-addPankingRequest (BankingRequest);
  System.out. println (" can"+ panking Request. get canID()+
  request count ++ ? " has apprived for parking. \n");
 Sannen dosel);
```