Reverse engineer the following Java program to a class diagram:

```
class Piston{
class Engin{
  int power;
                                                        int size;
  Piston piston;
public Engin(int p, int s) {
                                                        public Piston(int n){
                                                             size = n;
       piston = new Piston(s);
}
                                                      class Motorcycle extends Bike{
abstract class Vehicle{
                                                        public Motorcycle(String m, String t) {
  protected String model;
                                                             super(m, t);
  public Vehicle (String m){
       model = m;
                                                        public void run(){
  abstract void move();
                                                             System.out.println("Running
                                                                                      Motorcycle");
class Car extends Vehicle{
                                                      }
  Engin engin;
                                                      class Person{
  public Car(int p, int s, String m){
                                                        ArrayList<Car> cars;
    super(m);
                                                        Bike bike;
    engin = new Engin(p, s);
                                                        public Person(int n, Bike b){
                                                             cars = new ArrayList<Car>(n);
                                                             bike = b;
  public void move(){
       System.out.println("Car is moving");
  }
}
                                                        public void add(Car c ){ cars.add(c);}
class Bike extends Vehicle{
                                                        public void rent(Motorcycle mb){
  protected String type;
                                                             mb.run();
  public Bike(String m, String t) {
       super(m);
       type = t;
                                                      class Application{
                                                       public static void main(String []s){
                                                         ArrayList <Vehicle> v;
  public void move(){
       System.out.println("Bike is moving");
                                                         v = new ArrayList<Vehicle>(5);
                                                         v.add(new Bike("xyz", "mountain"));
v.add(new Motorcycle("Harley", "M900"));
v.add(new Car(350, 250, "Honda"));
}
                                                        }
```

Possible Solution

