Name:
UBIT Name:
Recitation:

1. Draw the UML Diagram describing the relationships between the classes and interfaces below.

```
public interface Vehicle {
  public boolean isMotorized();
  public int numWheels();
  public boolean flies();
}

public class TractorTrailer implements Vehicle {
  @Override public boolean isMotorized() { return true; }
  @Override public int numWheels() { return 18; }
  @Override public boolean flies() { return false; }
}

public abstract class Bike implements Vehicle {
  @Override public int numWheels() { return 2; }
  @Override public boolean flies() { return false; }
}

public class Bicycle extends Bike {
  @Override public boolean isMotorized() { return false; }
}

public class Helicopter implements Vehicle {
  @Override public boolean isMotorized() { return true; }
  @Override public int numWheels() { return 3; }
  @Override public boolean flies() { return true; }
}

public class Motorcycle extends Bike {
  @Override public boolean isMotorized() { return true; }
}
```

2. Write a method that takes an ArrayList<String> and a String as parameters and returns a boolean. If the given String matches any of the Strings in the list, return true; otherwise, return false. Use an enhanced for loop (for-each loop) for this question.