Question 5:-(Interface Bike Speed Gear)

```java
import java.util.*;

interface Vehicle

{

void changeGear(int a);

void speedUp(int a);

void applyBreaks(int a);

}

class Bicycle implements Vehicle

{

int speed;

int gear;

public void changeGear(int newGear)

{

gear = newGear;

}

public void speedUp(int increment)

{

speed=speed+increment;

}

public void applyBreaks(int decrement)

{

speed=speed-decrement;

}

public void printStates()

{

System.out.println("Speed = "+speed+"gear = "+gear);

}

}

class Bike implements Vehicle
```

```java
{
int speed;
int gear;
public void changeGear(int newGear)
{
gear = newGear;
}
public void speedUp(int increment)
{
speed=speed+increment;
}
public void applyBreaks(int decrement)
{
speed=speed-decrement;
}
public void printStates()
{
System.out.println("Speed = "+speed+"gear = "+gear);
}
}
class StartVehicle
{
public static void main(String args[])
{
Bicycle bicycle = new Bicycle();
bicycle.changeGear(2);
bicycle.speedUp(3);
bicycle.applyBreaks(1);
System.out.println("Bicycle present state :");
bicycle.printStates();
Bike bike = new Bike();
```

```java
        bike.changeGear(1);

        bike.speedUp(4);

        bike.applyBreaks(3);

        bike.applyBreaks(1);

        System.out.println("Bike present state :");

        bike.printStates();

    }

}
```