SOURCE CODE

Inheritance:

**package** com.lesson3.Abs;

**class** Bicycle {

**public** **int** gear;

**public** **int** speed;

**public** Bicycle (**int** gear, **int** speed)

{

**this**.gear = gear;

**this**.speed = speed;

}

**public** **void** applyBrake(**int** decrement)

{

speed -= decrement;

}

**public** **void** speedUp(**int** increment)

{

speed += increment;

}

**public** String toString()

{

**return**("No of gears are " + gear + "\n" + "speed of bicycle is " + speed);

}

}

**class** MountainBike **extends** Bicycle

{

**public** **int** seatHeight;

**public** MountainBike(**int** gear,**int** speed,**int** startHeight)

{

**super**(gear, speed);

seatHeight = startHeight;

}

**public** **void** setHeight(**int** newValue)

{

seatHeight = newValue;

}

@Override

**public** String toString()

{

**return** (**super**.toString()+

"\nseat height is "+seatHeight);

}

}

**public** **class** InheritanceDemo

{

**public** **static** **void** main(String[] args)

{

MountainBike mb = **new** MountainBike(3, 100, 25);

System.***out***.println(mb.toString());

}

}