MORE SNACKS

Write code and tests for an automatic bike with the following requirements:

1. The Bike can be turned on

2. The Bike can be turned off

3. The Bike can be accelerated

a) *When the bike is on Gear one, it accelerates in increment of 1,(eg, if my current speed is 15 and I accelerate, I expect the speed to be 16)*

b) *When the bike is on Gear two, it accelerates in increment of 2,(eg, if my current speed is 24 and I accelerate, I expect the speed to be 26)*

c) *When the bike is on Gear three, it accelerates in increment of 3,(eg, if my current speed is 35 and I accelerate, I expect the speed to be 38)*

d) *When the bike is on Gear four, it accelerates in increment of 4,(eg, if my current speed is 44and I accelerate, I expect the speed to be 48)*

4. The Bike can be deccelerated.

a) *When the bike is on Gear one, it decelerates in decrements of 1,(eg, if my current speed is 15 and I decelerate, I expect the speed to be 14)*

b) *When the bike is on Gear two, it decelerates in decrement of 2,(eg, if my current speed is 24 and I decelerate, I expect the speed to be 22)*

c) *When the bike is on Gear three, it decelerate in decrement of 3,(eg, if my current speed is 35 and I decrement, I expect the speed to be 32)*

d) *When the bike is on Gear four, it decelerate in decrement of 4,(eg, if my current speed is 44and I accelerate, I expect the speed to be 40)*

5. Gear speed are in the following range:

a) **Gear 1:** *0 - 20* b)**Gear 2:** *21 - 30* c) **Gear 3:** *31 - 40* d) **Gear 4:** *41 and above*

These gear changes automatically as soon as the bike gets exceeds any of these speed ranges either through acceleration or deceleration.

Biko use TDD to develop this... Please create a table as seen in snack 1.