Test Plan



1. testing three different gear initializations

```
a. FootWear (int defenseStrength, int attackStrength, String gearAdjective, String gearName)
```

- **b.** HandGear (int attackStrength, String gearAdjective, String gearName)
- C. HeadGear (int defenseStrength, String gearAdjective, String gearName)

2. test combine methods with combinations

- a. footwear1.combine(footwear2)
- b. headGear1.combine(headGear2)
- C. handGear1.combine(handGear2)

3. invalid combinations will throw exception error

- a. footwear1.combine(headGear1)
- b. footwear1.combine(handGear1)
- C. handGear1.combine(headGear1)

Test Plan 1

```
Object initialization test....
      Happy Hoverboard -- defense strength: 3, attack strength: 1 \,
      Stylish Baseball cap -- defense strength: 3, attack strength: 0 \,
      heavy Shield -- defense strength: 0, attack strength: 3
      System.out.println("Valid combination test....");
      System.out.println(footwear1.combine(footwear2).toString());
      System.out.println(headGear1.combine(headGear2).toString());
      System.out.println(handGear1.combine(handGear2).toString());
      Console:
      *******************************
      Valid combination test....
      Happy, Scurrying Sandals -- defense strength: 4, attack strength: 1
      Stylish, Metallic Striped Helmet -- defense strength: 6, attack strength: 0
      heavy, sharp Sword -- defense strength: 0, attack strength: 8
      System.out.println("~~~~~~~~~~~~~");
      System.out.println("inValid combination test....");
//
       System.out.println(footwear1.combine(headGear1).toString());
      System.out.println(footwear1.combine(handGear1).toString());
//
       System.out.println(handGear1.combine(headGear1).toString());
      System.out.println("~~
      Console:
    inValid combination test....
    Exception in thread "main" java.lang.Exception: Cannot combine FootWear and HandGear
      at RolePlayingGames.AbstractGear.combine(AbstractGear.java:48)
      at RolePlayingGames.Main.main(Main.java:40)
```

Test Plan 2