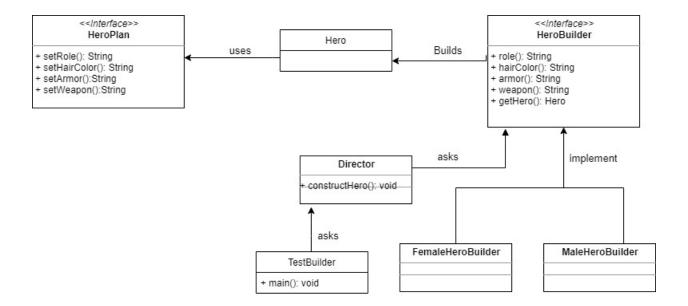
## NAME: KHUSHBOO MANTRI

# SUBJECT: OBJECT ORIENTED DESIGN AND PROGRAMMING.

### Q2:

Class Names: HeroBuilder.java is an interface which builds Hero.java class. Hero.java uses HeroPlan.java which interface. FemaleHeroBuilder.java and MaleHeroBuilder.java implements HeroBuilder.java. TestBuilder.java is the main class and it asks Director class to construct a Hero.

#### Class Diagram:



- 1) Make a static nested class called Builder inside the class whose object will be build by Builder.
- 2) Builder class will have exactly same set of fields as original class.
- 3) Builder class will expose method for adding .Builder will be enriched with each method call.

- 4) Builder.build() method will copy all builder field values into actual class and return object of Item class.
- 5) Item class (class for which we are creating Builder) should have private constructor to create its object from build() method and prevent outsider to access its constructor.

### Output:

Administrator: Command Prompt

C:\Program Files\Java\jdk-13.0.2\bin>javac TestBuilderPattern.java

C:\Program Files\Java\jdk-13.0.2\bin>java TestBuilderPattern

Type of Hero:
Role:King
HairColor:Black
Armor:Chain\_mail
Meapon:Axe

Type of Hero:
Role:Queen
HairColor:Brown
Armor:Plate\_mail
Meapon:Bow

C:\Program Files\Java\jdk-13.0.2\bin>