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Quiz-3 (CLO-2) Dr. Muhammad Asif BSSE-2023 (A&B) Software Requirement Engineering SE203-T (Spring-25) Information Technology University (ITU) - Lahore 04-M\arch-2024 Time: 15min Marks=10 Question 1: Missing Base Component Implementation The following code tries to implement the Decorator Partern, but it is incomplete. Fix the missing base component implementation. class hard, Barrage & modified codi. @ Overvido Coffee public String getDescription() { return "Plain Coffee"; } hould be abstract function.

Report abstraction get (0st () } @ Overide public double getCost() { return 5.0; } } should another class class CoffeeDecorator extends Coffee { that should too ontend. Beverage bevarage the coffee he coffee desprace protected Coffee coffee; public all Vant Beverage here public CoffeeDecorator(Coffee coffee) mis, bevarage 2 be verge this.coffee = coffee; } @Override public aboved double get (0x1); public String getDescription() { return coffee.getDescription(); } @Override public double getCost() { return coffee.getCost(); } } class Milk extends CoffeeDecorator { 11 add me. Instance of beguenge to call me. (Office class. Beverage herege offer coffee; public Milk(Coffee coffee) {
Reverse neverne description 2 11

```
pricobeverge.
     super(coffee); }
  @Override
   public String getDescription() {
     return super.getDescription() + ", Milk"; }
   @Override
  public double getCost() {
    return super.getCost() + 2.0; } }
                                                             beverge = new. Beverge ();
se = new (Office (Milk);
public class DecoratorPatternDemo
 public static void main(String[] args) {
                                           Bevereze
    Coffee coffee = new Coffee();
    coffee = new Milk(coffee);
                                       beverye.
   System.out.println("Description: " + coffee.getDescription());
                                 beverse
   System.out.println("Cost: " + coffee.getCost()); } }
Chocolate Topping"; } }
```