**Lab Task 2**

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Write JUnit test cases with methods assertNotNull, assertEquals, assertNotEquals and assertions @Test , @Before, @BeforeAll, @AfterAll to check the functionality of Pizza class having following functions:

# Pizza Class:

public *class* Pizza

{

*private* String *size*;

*private* int *cheese*;

*private* int *pepproni*;

*private* int *ham*;

*public* Pizza*()*

    {

*this*.size*=""*;

*this*.cheese *=* 0;

*this*.pepproni *=* 0;

*this*.ham *=* 0;

    }

*public* Pizza*(String size, int cheese,int pepproni, int ham)*

    {

*this*.size*=*size;

*this*.cheese *=* cheese;

*this*.pepproni *=* pepproni;

*this*.ham *=* ham;

    }

*public* double calcCost*( )*

    {

*if*( size *=="small"*){

*return* 6 *+* (cheese*+* pepproni*+* ham)*\**1;

        }

*else* *if*( size *=="medium"*){

*return* 8 *+* (cheese*+* pepproni*+* ham)*\**1;

        }

*else* *if*( size *=="large"*){

*return* 10 *+* (cheese*+* pepproni*+* ham)*\**1;

        }

*else*{

*return* 0.0;

        }

    }

*public* *void* description*()*{

        System.out.println(*" Pizza Size: "+*size*+"\n Cheese Topping: "+*cheese*+"\n Pepperoni Topping: "+*pepproni*+"\n Ham Topping: "+* ham );

    }

}

# Pizza Test Class:

*import* *static* *org.junit.Assert.\**;

*import* *org.junit.After*;

*import* *org.junit.Before*;

*import* *org.junit.Test*;

*import* *java.util.logging.Logger*;

*public* *class* PizzaTest

{

*private* *static* *Logger* logger *=* Logger.getLogger(*"InfoLogging"*);

    @*Before*

*public* *void* setUp()

    {

         logger.info(*"Going to start next test "*);

    }

    @*Test*

*public* *void* testPrice(){

*Pizza* p *=* *new* Pizza(*"large"*,1,1,0);

*int* expected *=* 12;

*int* calculated *=*(*int*) p.calcCost();

        assertEquals(*"Unsucceded "*,calculated,expected);

        System.out.println(*"Pizza Cost: "+*p.calcCost());

        p.description();

        logger.info(*" Performing test1.... "*);

    }

    @*Test*

*public* *void* testPrice2(){

*Pizza* p *=* *new* Pizza(*"medium"*,1,1,1);

*int* expected *=* 11;

*int* calculated *=*(*int*) p.calcCost();

        assertNotNull(calculated);

        logger.info(*" Performing test2.... "*);

    }

    @*Test*

*public* *void* testPrice3(){

*Pizza* p *=* *new* Pizza(*"m"*,1,1,1);

*int* expected *=* 11;

*int* calculated *=*(*int*) p.calcCost();

        assertNull(calculated);

        logger.info(*" Performing test3.... "*);

    }

    @*After*

*public* *void* tearDown()

    {

        logger.info(*"Test finished.. "*);

    }

}