



Lab Assignment



Universiti
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Engineering • Technology • Creativity

- a) Derive 20 test cases then use the *Junit test* to do *component test* and *integration test* between the units in the *Disc()* class. [10 Marks]

The Class you want to test is as follow :

```
public class Disc {
    static double discount;
    public static double printDiscount(double price, int salary, int age) {
        discount = 0;
        double a=price;
        int b=salary;
        int c=age;
        discount = disCount(a, b, c);
        System.out.println(" Discount is = " + discount +"%");
        return discount;
    }
    public static double disCount(double a, int b, int c) {
        double disc = 0;
        if (a <100.0 && a >50 )
        { if(b<2001)
            if(c>35)
                disc=10.0;
            else
                disc=5.0;
            else
                disc=0.0;
        }
        else {
            if(b<2001)
            if(c>35)
                disc=15.0;
            else
                disc=12.0;
            else
                disc=51.0;
        }
        return disc;
    }
}
```

Figure 1