JAVA WEEK 3

GrPA1--

```java
    //implement the constructor
    public Employee(String nm, long adhano, double salary){
        super(nm, adhano);
        this.salary = salary;
    }

    //override print method
    public void print(){
        super.print();
        System.out.println("salary : " + salary);
    }
}

class ContactEmployee extends Employee{
    final private static double hourlyPay = 100.00;
    private int contactHour;

    //implement the constructor
    public ContactEmployee(String nam, long aadhano, int con){
        super(nam, aadhano, con * hourlyPay);
    }
    //salary is computed as contactHour * hourlyPay
    public void print(){
        super.print();
    }
}
```

GrPA2--
//implement Rectangle class

```java
    public Rectangle(int wid, int hei){
        this.w = wid;
        this.h = hei;
    }

    public int area(){
        return w * h;
    }
}

class Cube extends Shape{
    private int a;
    //implement Cube class
    public Cube(int len){
        this.a = len;
    }

    public int volume(){
        return a*a*a;
    }
}

class FClass{
    private static void caller(Shape s) {
        //check if s is of type Rectangle
        if (s instanceof Rectangle){
            System.out.println(s.area());
        }
        //check if s is of type Cube
        if (s instanceof Cube){
            System.out.println(s.volume());
        }
    }
```

GrPA3---
```java
//Fill the code here
    public BankAccount(int acNumber, String name, int bal){
        this.accountNumber = acNumber;
```

```java
      this.name = name;
      this.balance = bal;
   }
   //prints the balance
   public void balance( ){
      System.out.println(this.balance);
   }

   //updates balance = balance + amount
   public void deposit(int amount){
      this.balance += amount;
   }

   //calls the checkMinBalance(amount) method,
   //if it returns true update balance = balance - amount else prints Transcation failed
   public void withdraw(int amount){
      if (checkMinBalance(amount)){
         this.balance -= amount;
      }
      else {
         System.out.println("Transaction failed");
      }
   }
}
```