

## **SET : A**

```
class Soldier {
    String name;
    int bonus, earning, rank;
    String[] work = new String[4];
    int pointer;
    Soldier() {
        this.bonus=0;
        this.earning=10;
        this.rank=1;
    }
    void setInfo(String name, int rank) {
        this.name = name;
        this.rank = rank;
        if (this.rank==2) {
            this.earning = 20;
        }
    }
    void setInfo(String name) {
        this.name = name;
    }
    String giveInfo() {
        String a = "Name: "+this.name+"\n"+"Rank: "+this.rank+"\n"+
            "earning: "+(this.earning+this.bonus)+"\n";
        if (this.pointer > 0) {
            a += "Work: ";
            for (int i = 0; i < this.pointer; i++) {
                a += this.work[i)+"\n";
            }
        } else {
            a += "No work assigned.\n";
        }
        return a;
    }
    void addWork(String w) {
        if (this.pointer >= this.work.length) {
            System.out.println("Cannot add more work");
            return;
        }
        this.work[this.pointer] = w;
        this.pointer++;
        this.bonus += 3;
    }
}
```

## **SET : B**

```
class Employee {
    String name;
    int bonus, salary, position;
    String[] responsibility = new String[3];
    int pointer;
    Employee() {
        this.bonus=0;
        this.salary=20000;
        this.position=1;
    }
    void setDets(String name) {
        this.name = name;
    }
    void setDets(String name, int position) {
        this.name = name;
        this.position = position;
        if (this.position==3) {
            this.salary = 100000;
        } else if (this.position==2) {
            this.salary = 50000;
        } else {
            this.salary = 20000;
        }
    }
    void setBonus(int bonus) {
        this.bonus = bonus;
    }
    String giveDets() {
        String a = "Name: "+this.name+"\n"+"Position: "+this.position+"\n"+
            "Salary: "+(this.salary+this.bonus)+"\n";
        if (this.pointer > 0) {
            a += "Responsibilities: ";
            for (int i = 0; i < this.pointer; i++) {
                a += this.responsibility[i)+"\n";
            }
        } else {
            a += "No responsibilities assigned.\n";
        }
    }
}
```

```
        return a;
    }
    void addResponsibility(String resp) {
        if (this.pointer >= this.responsibility.length) {
            System.out.println("Cannot add more responsibilities");
            return;
        }
        this.responsibility[this.pointer] = resp;
        this.pointer++;
    }
}
```