Série 3 - Exercice 4 : Entreprise

1)-

```
public abstract class Employe {
      private String nom;
      private String prenom;
      private int age;
      private String date;
public Employe(String prenom, String nom, int age, String date){
      this.nom= nom;
      this.prenom= prenom;
      this.age= age;
      this.date= date;
      }
      public abstract double calculerSalaire();
      public String getTitre(){
      return"L'employé ";
      public String getNom(){
      return getTitre()+ prenom +" "+ nom;
```

2)-

```
public abstract class Commercial extends Employe{
    private double chiffreAffaire;

    public Commercial(String prenom, String nom, int age, String date, double chiffreAffaire){
    super(prenom, nom, age, date);
    this.chiffreAffaire=chiffreAffaire;
    }

    public double getChiffreAffaire(){
    return chiffreAffaire;
    }
}
```

```
public class Vendeur extends Commercial{
    private final static double POURCENT_VENDEUR =0.2;
    private final static int BONUS_VENDEUR =4000;

    public Vendeur(String prenom, String nom, int age, String date,double chiffreAffaire){
        super(prenom, nom, age, date, chiffreAffaire);
     }

    public double calculerSalaire(){
        return(POURCENT_VENDEUR *getChiffreAffaire())+ BONUS_VENDEUR;
     }

    public String getTitre(){
        return "Le vendeur ";
     }
}
```

```
public class Representant extends Commercial{
    private final static double POURCENT_REPRESENTANT =0.2;
    private final static int BONUS_REPRESENTANT =8000;

    public Representant(String prenom, String nom, int age, String date, double chiffreAffaire){
        super(prenom, nom, age, date, chiffreAffaire);
     }

    public double calculerSalaire(){
        return(POURCENT_REPRESENTANT *getChiffreAffaire())+ BONUS_REPRESENTANT;
     }

    public String getTitre(){
        return"Le représentant ";
     }
}
```

```
public class Technicien extends Employe{
    private final static double FACTEUR_UNITE
    private int unites;

    public Technicien(String prenom, String nom, int age, String date, int unites){
        super(prenom, nom, age, date);
        this.unites= unites;
    }

    public double calculerSalaire(){
        return FACTEUR_UNITE *unites;
    }

    public String getTitre()
    {
        return"Le technicien ";
    }
}
```

```
public class Manutentionnaire extends Employe{
    private final static double SALAIRE_HORAIRE =65.0;
    private int heures;

    public Manutentionnaire(String prenom, String nom, int age, String date,int
heures){
        super(prenom, nom, age, date);
        this.heures= heures;
      }

    public double calculerSalaire(){
        return SALAIRE_HORAIRE * heures;
      }

    public String getTitre(){
        return"Le manutentionnaire ";
      }
}
```

3)

```
public interface ARisque {
    int PRIME =2000;
}
```

```
public class TechnARisque extends Technicien implements ARisque{
    public TechnARisque(String prenom, String nom, int age, String date, int unites){
        super(prenom, nom, age, date, unites);
    }
    public double calculerSalaire(){
        return super.calculerSalaire()+ PRIME;
    }
}
```

```
public class Personnel {
      private Employe[] staff;
      private int nbreEmploye;
      private final static int MAXEMPLOYE =200;
      public Personnel(){
               staff =new Employe[MAXEMPLOYE];
               nbreEmploye =0;
       public void ajouterEmploye(Employe e){
      ++nbreEmploye;
      if(nbreEmploye <= MAXEMPLOYE){</pre>
      staff[nbreEmploye-1]= e;
      }else{
      System.out.println("Pas plus de "+ MAXEMPLOYE +" employés");}
      public double salaireMoyen(){
      double somme =0.0;
      for(int i =0; i < nbreEmploye; i++){</pre>
      somme += staff[i].calculerSalaire();
      return somme /nbreEmploye;
      public void afficherSalaires(){
      for(int i =0; i < nbreEmploye; i++){</pre>
      System.out.println(staff[i].getNom()+" gagne "
      + staff[i].calculerSalaire()+" dhs.");
      }
      }
```

5)