Name – Moitrish Maity

3rd year CSE Roll – 48

DAY 7

1)

```java
abstract class employee{

   String name;

   int emp_id;

   int doj;


   void getinfo(String name, int emp_id, int doj){

      System.out.println("Name: "+name);

      System.out.println("Employee Id: "+emp_id);

      System.out.println("Date of joining: "+doj);

   }


   abstract void getsal(int val);


}


class manager extends  employee{

   void getsal(int val){

      System.out.println("Manager salary: "+ (val + (val * 0.99)));

   }
}
```

```java
class salesman extends  employee{


    void getsal(int val){

        System.out.println("Salesman salary: "+ (val + (val * 0.85)));

    }

}


public class d7problem1 {

    public static void main(String[] args) {

        employee man = new manager();

        man.getinfo("M. Dubey", 14756, 05042015);

        man.getsal(65000);

        employee sales = new salesman();

        sales.getinfo("Murli", 4534, 23072009);

        sales.getsal(15000);

    }

}
```

Output :

```
Name: M. Dubey
Employee Id: 14756
Date of joining: 1328141
Manager salary: 129350.0
Name: Murli
Employee Id: 4534
Date of joining: 23072009
Salesman salary: 27750.0
```

2)

```java
abstract class bank{

    String name;

    String br_name;

    int ifsc;


    bank(String name, String br_name, int ifsc){

        this.name = name;

        this.br_name = br_name;

        this.ifsc = ifsc;

    }


    void display(){

        System.out.println("Name of bank: "+this.name);

        System.out.println("Name of Branch: "+this.br_name);

        System.out.println("IFSC Code: "+this.ifsc);

    }


    abstract int getroi();
}

class SBI extends bank{

    SBI(String name, String br_name, int ifsc){

        super(name, br_name,ifsc);
```

```java
        }

        int getroi(){

            return 6;

        }

    }


class PNB extends bank{

        PNB(String name, String br_name, int ifsc) {

            super(name, br_name, ifsc);

        }


        int getroi(){

            return 7;

        }

    }


class AXIS extends bank{

        AXIS(String name, String br_name, int ifsc) {

            super(name, br_name, ifsc);

        }
```

```java
    int getroi(){

        return 8;

    }



}


class HDFC extends bank{

    HDFC(String name, String br_name, int ifsc) {

        super(name, br_name, ifsc);

    }

    int getroi(){

        return 9;

    }

}

public class d7problem2 {

    public static void main(String[] args) {

        bank sbi = new SBI("STATE BANK OF INDIA", "Dhakuria", 300984);

        bank pnb = new PNB("PUNJAB NATIONAL BANK", "Dhakuria", 456827);

        bank axis = new AXIS("AXIS BANK", "Dhakuria", 456382);

        bank hdfc = new HDFC("HDFC Bank", "Dhakuria", 133425);


        sbi.display();

        System.out.println("SBI interest: "+sbi.getroi()+" %");

        System.out.println("\n");
```

```java
        pnb.display();

        System.out.println("PNB Interest: "+pnb.getroi()+" %");

        System.out.println("\n");

        axis.display();

        System.out.println("AXIS Interest: "+axis.getroi()+" %");

        System.out.println("\n");

        hdfc.display();

        System.out.println("HDFC Interest: "+hdfc.getroi()+" %");


        System.out.println("\n");


        if(sbi.getroi() > pnb.getroi() && sbi.getroi() > axis.getroi() && sbi.getroi() > hdfc.getroi()){

            System.out.println("Best choice is to go with "+sbi.name+" with interest rate: "+sbi.getroi());

        }
        else if (pnb.getroi() > axis.getroi() && pnb.getroi() > hdfc.getroi()){

            System.out.println("Best choice is to go with "+pnb.name+" with interest rate: "+pnb.getroi());

        }
        else if (axis.getroi() > hdfc.getroi()){

            System.out.println("Best choice is to go with "+axis.name+" with interest rate: "+axis.getroi());

        }
        else{

            System.out.println("Best choice is to go with "+hdfc.name+" with interest rate: "+hdfc.getroi());

        }
    }
}
```

Output :

```
Name of bank: STATE BANK OF INDIA
Name of Branch: Dhakuria
IFSC Code: 300984
SBI interest: 6 %


Name of bank: PUNJAB NATIONAL BANK
Name of Branch: Dhakuria
IFSC Code: 456827
PNB Interest: 7 %


Name of bank: AXIS BANK
Name of Branch: Dhakuria
IFSC Code: 456382
AXIS Interest: 8 %


Name of bank: HDFC Bank
Name of Branch: Dhakuria
IFSC Code: 133425
HDFC Interest: 9 %


Best choice is to go with HDFC Bank with interest rate: 9
```