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Lab 08

Task 1 Bank Account

```java

package lab_8;

abstract class bankAccount
{
    int servic_years=10;
    abstract int deposit(int deposit_amount);
    abstract int withraw(int withraw_amount);

    void show() {
        System.out.println("Showing inside main class");
    }
}
class checkingAccount extends bankAccount
{
    int total_balance=3000;

    int deposit(int deposit_amount)
    {
        return total_balance+deposit_amount;
    }
    int withraw(int withraw_amount)
    {
        return total_balance-withraw_amount;
    }

}
class savingAccount extends bankAccount
{

```

```java
        return total_balance-withraw_amount;
    }

}
class savingAccount extends bankAccount
{

    int total_balance=3000;


    int deposit(int deposit_amount)
    {
        return total_balance+deposit_amount;
    }
    int withraw(int withraw_amount)
    {
        return total_balance-withraw_amount;
    }
}

public class task1
{
    public static void main(String[] args) {
        checkingAccount checkOBJ=new checkingAccount();
        savingAccount saveOBJ=new savingAccount();

        saveOBJ.show();
        checkOBJ.show();
    }
}

```

Task 1 Output

```
run:
Showing inside main class
Showing inside main class
```

Task 2

```
package lab_8;

abstract class animal
{
    abstract void makesound();
        static void dispaly_class()
        {
            System.out.println("This is Animal class");
        }
}
class dog extends animal
{
    @Override
    void makesound() {
        System.out.println("Bhao Bhao");
    }

}
class cat extends animal
{
    @Override
    void makesound() {
        System.out.println("Meoww Meoww");
    }
}
public class task2
{
    public static void main(String[] args)
    {
```

```java
class cat extends animal
{
    @Override
    void makesound() {
        System.out.println("Meoww Meoww");
    }
}
public class task2
{
    public static void main(String[] args)
    {
        dog dogOBJ=new dog();
        cat catOBJ=new cat();

        dogOBJ.makesound();
        catOBJ.makesound();

    }
}
```

Task 2 output

```
run:
Bhao Bhao
Meoww Meoww
```

Task 3

```java
abstract class game{

    abstract void play();

}
class chess extends game{
    @Override
    void play() {
        System.out.println("Chess game played");

    }
}
class checkers extends game{
    @Override
    void play() {
        System.out.println("Checkers game played");
    }
}
public class task3
{
    public static void main(String[] args) {
        checkers checkersOBJ=new checkers();
        chess chessOBJ=new chess();


        checkersOBJ.play();
        chessOBJ.play();
    }
}
```

Task 3 output

```
run:
Checkers game played
Chess game played
```

Task 4

```java

    package lab_8;
    abstract class marks
    {

        abstract int getpercentage();

    }

    class A extends marks
    {

        int sub1;
        int sub2;
        int sub3;
        A (int sub1,int sub2,int sub3)
        {
            this.sub1=sub1;
            this.sub2=sub2;
            this.sub3=sub3;
        }
        int getpercentage() {
            return ((sub1+sub2+sub3)*100)/300;
        }
    }
    class B extends marks{
        int sub4;
        int sub5;
        int sub6;
        int sub7;
```

```java
    }
    class B extends marks{
        int sub4;
        int sub5;
        int sub6;
        int sub7;
        B (int sub4,int sub5,int sub6,int sub7)
        {
            this.sub4=sub4;
            this.sub5=sub5;
            this.sub6=sub6;
            this.sub7=sub7;
        }

        int getpercentage() {
            return ((sub4+sub5+sub6+sub7)*100)/400;
        }
    }

    public class task4 {
        public static void main(String[] args) {
            A aOBJ=new A(70,60,49);
            B bOBJ=new B(45,90,70,80);


            System.out.println(aOBJ.getpercentage()+" Percentage");
            System.out.println(bOBJ.getpercentage()+" Percentage");
        }
    }

```

Task 4 Output

```
run:
59 Percentage
71 Percentage
```