Lab 4:

```
abstract class Shape {
int num1, num2;
void printArea(int a, int b){
    num1 = a;
    num2 = b;
}
}
class Rectangle extends Shape {
void printArea(int num1, int num2){
System.out.println("Area of rectangle
                    = " + (num1 * num2));
}
}
class Triangle extends Shape {
  void printArea(int num1, int num2){
System.out.println("Area of Triangle =
                    " + ((double)(num1 * num2)
                    /2));
}
}
class circle extends Shape {
  void printArea(int num1){
System.out.println("Area of circle = " +
                    (3.14 * num1 * num1));
}
}
```

class Area {

public static void main(String [] args){

Rectangle r = new Rectangle();

r.printArea(7,7);

Triangle t = new Triangle();

t.printArea(7,7);

Circle c = new Circle();

c.printArea(7);

}

}

Lab 5:

```
import java.util.*;
class Account {
Scanner in = new Scanner (System.in);
String Customer_name, type_of_account;
long account_number;
double balance = 9876.5;
void Accept () {
System.out.println ("Enter Customer name");
customer_name = in.nextLine();
System.out.println ("Enter Account number");
account_number = in.nextLong ();
}
void deposit () {
int dep;
System.out.println (" Enter the amount to be
                    deposited");
  dep = in.nextInt ();
  balance += dep;
  System.out.println ("Balance =" + balance);

}
void withdrawal () {
int withdra
System.out.println (" Enter the amount
  you want to withdraw");
  withdra = in.nextInt ();
```

```
balance -= withdraw;
System.out.println("Balance:" + balance);

}
}

class CurrAct extends Account {
  void penalty(){
  if (balance<100) {
    balance -= 100;
  System.out.println("100 penalty for maintaining
  less than minimum balance");
  System.out.println("Balance =" + balance);
  }
}
}

class SavAct extends Account {
  void interest(){
  double i;
  i = balance*0.02;
    balance += i;
  System.out.println("Interest =" + i);
  System.out.println("Total Balance =" +
                     balance);

}

}
```

```
class Bank {
public static void main (String[] args)
{
Scanner in = new Scanner (System.in);
CurrAct c = new CurrAct ();
SavAct s = new SavAct ();
System.out.println ("Enter your choice\n
1. Savings Account \n 2. Current Account");
int choice = in.nextInt();
if (choice == 2)
{
c.Accept ();
System.out.println (" Enter your choice\n
1. Deposit \n 2. Withdraw");
int n = in.nextInt();
switch (n) {
case 1: {
c.deposit ();
break;
}
Case 2: {
c.withdrawal ();
C. finalbal ();
break;
}
```

```
default: System.out.println("Wrong
                    choice!");
    }
  }
if (choice==1){
  S.accept();
  System.out.println("Enter your choice
  in 1:deposit in 2:withdraw");
  int n=in.nextInt();
  switch(n){
  case 1: {
   S.deposit();
   S.interest();
   break;
  }
  case 2: {
  S.withdrawal();
   break;
  }
default: System.out.println("Wrong
                    choice!");
```