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**UNIVERSITY OF RWANDA**

**COLLEGE OF BUSINESS AND ECONOMICS**

**SCHOOL OF BUSINESS**

**GIKONDO CUMPUS**

**BIT DEPARTEMENT**

**LEVEL 2**

**MODULE: ADVANCED JAVA**

**INDIVIDIVAL QUIZEZ**

**CONROL STATEMENTS**

1. class BreakExample2 {

public static void main(String[] args) {

for(int i=1;i<=3;i++){

for(int j=1;j<=3;j++){

if(i==2&&j==2){

}

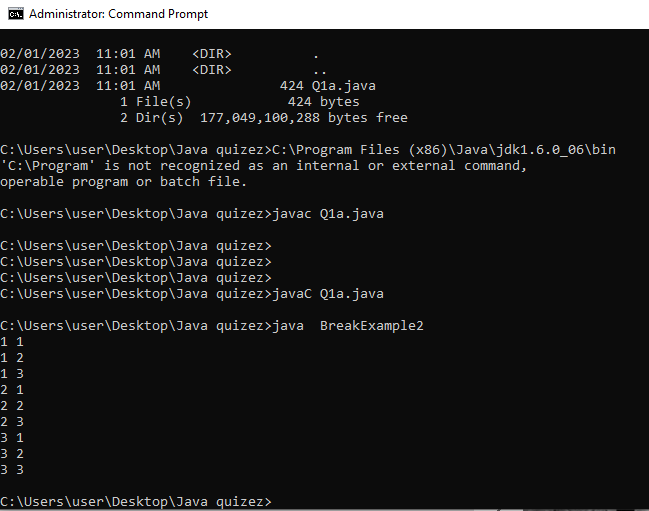
System.out.println(i+" "+j);

}

}

}

}



2. class DoWhileExample2 {

public static void main(String[] args) {

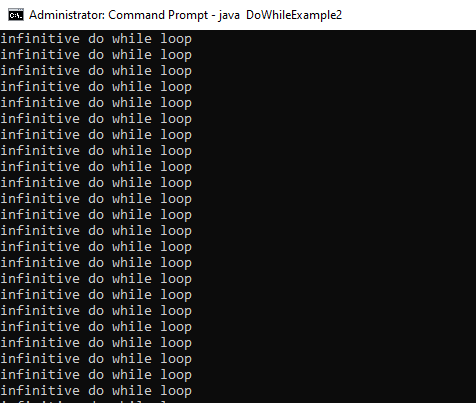
do{

System.out.println("infinitive do while loop");

}while(true);

}

}



3. class PyramidExample {

public static void main(String[] args) {

for(int i=1;i<=5;i++){

for(int j=1;j<=i;j++){

System.out.print("\* ");

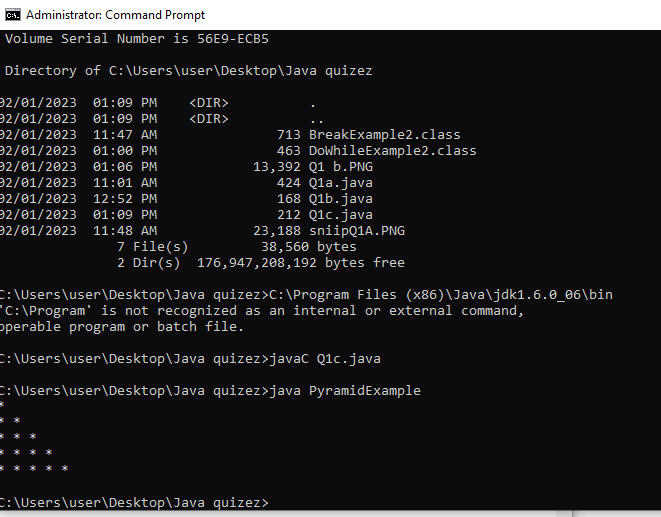
}

System.out.println();//new line

}

}

}



**JAVA OBJECT CLASS**

**1.** **class Student{**

**int id;**

**String name;**

**}**

**class TestStudent2{**

**public static void main(String args[]){**

**Student s1=new Student();**

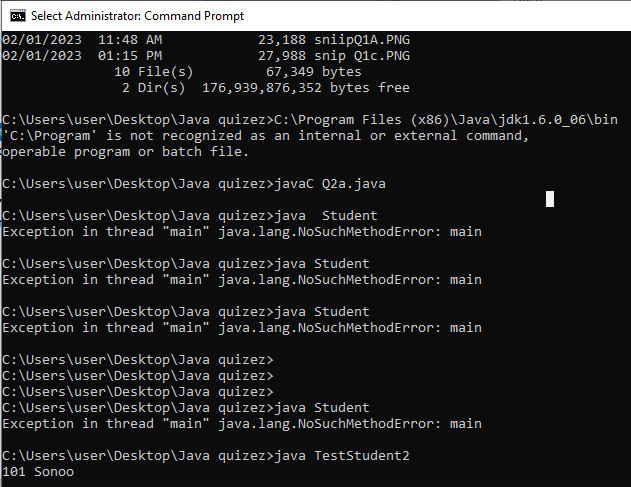
**s1.id=101;**

**s1.name="Sonoo";**

**System.out.println(s1.id+" "+s1.name);//printing members with a white space**

**}**

**}**



**2. class Student{**

**int rollno;**

**String name;**

**void insertRecord(int r, String n){**

**rollno=r;**

**name=n;**

**}**

**void displayInformation(){System.out.println(rollno+" "+name);}**

**}**

**class TestStudent4{**

**public static void main(String args[]){**

**Student s1=new Student();**

**Student s2=new Student();**

**s1.insertRecord(111,"Karan");**

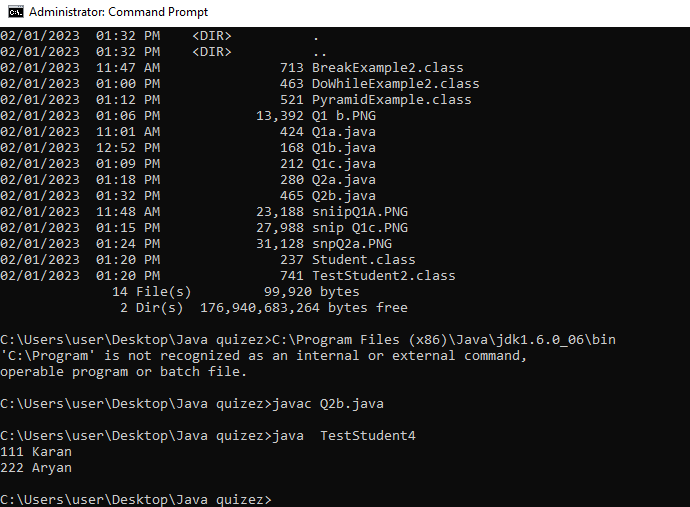
**s2.insertRecord(222,"Aryan");**

**s1.displayInformation();**

**s2.displayInformation();**

**}**

**}**

**}** 

**}**

**JAVA INHERITANCE**

**1.** **class Employee{**

**float salary=40000;**

**}**

**class Programmer extends Employee{**

**int bonus=10000;**

**public static void main(String args[]){**

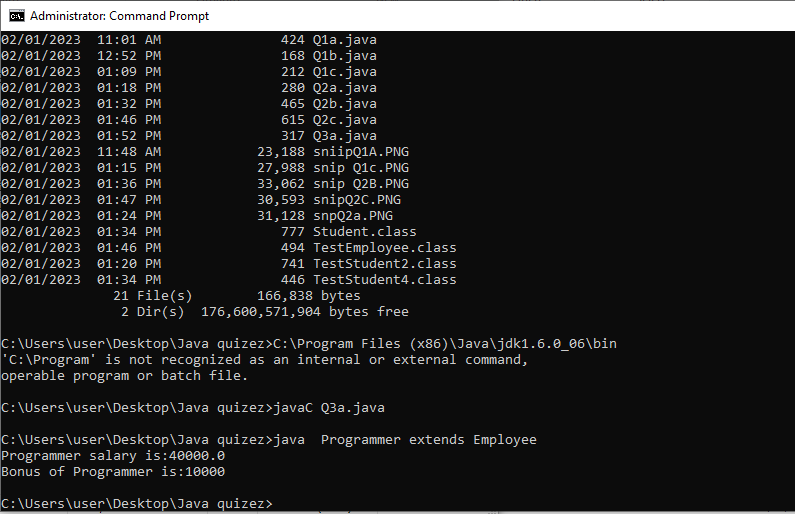
**Programmer p=new Programmer();**

**System.out.println("Programmer salary is:"+p.salary);**

**System.out.println("Bonus of Programmer is:"+p.bonus);**

**}**

**}**



**2,**

class Animal{

void eat(){System.out.println("eating...");}

}

class Dog extends Animal{

void bark(){System.out.println("barking...");}

}

class TestInheritance{

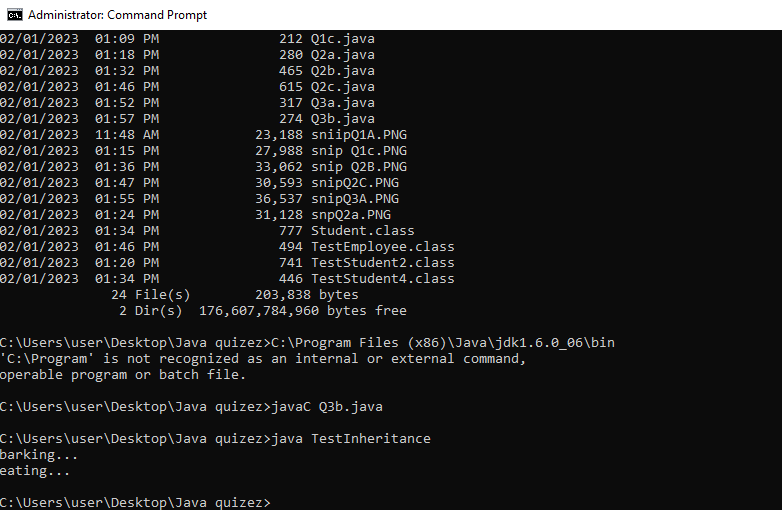
public static void main(String args[]){

Dog d=new Dog();

d.bark();

d.eat();

}}



**3.** **class Operation{**

**int square(int n){**

**return n\*n;**

**}**

**}**

**class Circle{**

**double pi=3.14;**

**double area(int radius){**

**op=new Operation();**

**int rsquare=op.square(radius);**

**return pi\*rsquare;**

**}**

**public static void main(String args[]){**

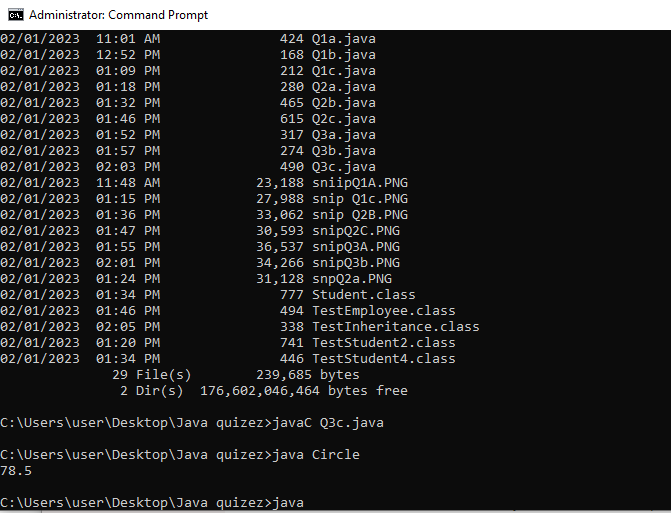
**Circle c=new Circle();**

**double result=c.area(5);**

**System.out.println(result);**

**}**

**}**



**JAVA POLYMORPHISM**

1. class Dog2{

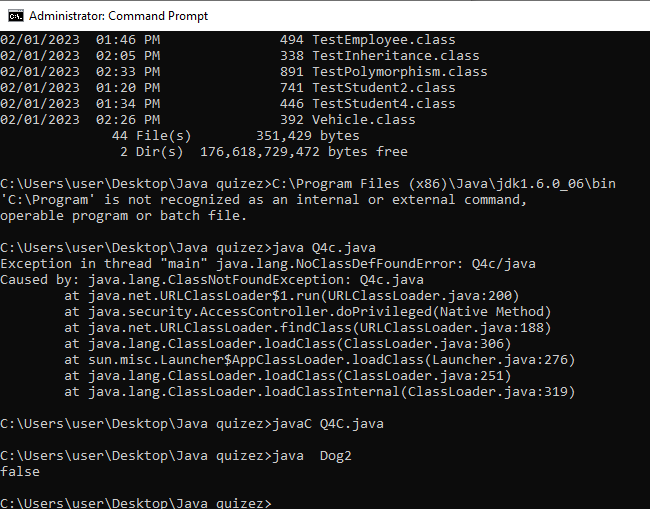
public static void main(String args[]){

Dog2 d=null;

System.out.println(d instanceof Dog2);

}

}



**2.** **class Vehicle{**

**void run(){System.out.println("Vehicle is running");}**

**}**

**class Bike extends Vehicle{**

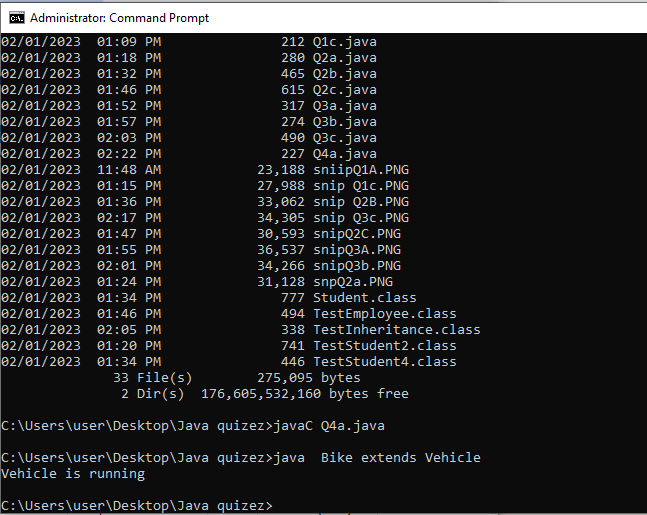
**public static void main(String args[]){**

**Bike obj = new Bike();**

**obj.run();**

**}**

**}**



**3.** **class Bank{**

**float getRateOfInterest(){return 0;}**

**}**

**class SBI extends Bank{**

**float getRateOfInterest(){return 8.4f;}**

**}**

**class ICICI extends Bank{**

**float getRateOfInterest(){return 7.3f;}**

**}**

**class AXIS extends Bank{**

**float getRateOfInterest(){return 9.7f;}**

**}**

**class TestPolymorphism{**

**public static void main(String args[]){**

**Bank b;**

**b=new SBI();**

**System.out.println("SBI Rate of Interest: "+b.getRateOfInterest());**

**b=new ICICI();**

**System.out.println("ICICI Rate of Interest: "+b.getRateOfInterest());**

**b=new AXIS();**

**System.out.println("AXIS Rate of Interest: "+b.getRateOfInterest());**

**}**

**}**

