


```

        {
            System.out.print(" ");
        }

        for (j=0; j<=i; j++ )
        {

            System.out.print("* ");

        }

        System.out.println();
    }
    break loop;
case 3:
    System.out.print("Enter the number of rows: ");

    row = sc.nextInt();
    for(i=0; i<row; i++)
    {
        for(j=0; j<=i; j++)
        {

            System.out.print("* ");

        }

        System.out.println();
    }
    break loop;

default:
    System.out.println("Invalid opt!  Choose the correct option");
}

}

}

}

```

Polymorphism:

```
package oops.capg;

public class Animal {
    public void animalSound() {
        System.out.println("The animal makes a sound");
    }
}

class Pig extends Animal {
    public void animalSound() {
        System.out.println("The pig says: wee wee");
    }
}

class Dog extends Animal {
    public void animalSound() {
        System.out.println("The dog says: bow wow");
    }
}

package oops.capg;

public class Main {

    public static void main(String[] args) {

        Animal myAnimal = new Animal(); // Create Animal object
        Animal myPig = new Pig(); // Create a Pig object
        Animal myDog = new Dog(); // Create a Dog object
        myAnimal.animalSound();
        myPig.animalSound();
        myDog.animalSound();
    }
}
```

Inheritance:

```
package oops.capg;

class Animal1 {
    void eat()
    {
        System.out.println("eating...");
    }
}

class dog extends Animal1
{
    void bark()
    {
        System.out.println("barking...");
    }
}

class BabyDog extends dog
{
    void weep()
    {
        System.out.println("weeping...");
    }
}

package oops.capg;

public class Inheritance {

    public static void main(String[] args) {

        BabyDog d=new BabyDog();
        d.weep();
        d.bark();
        d.eat();

    }

}
```

Abstraction:

```
package oops.capg;

public abstract class MotorBike {

    abstract void brake();

}

class SportsBike extends MotorBike {

    // implementation of abstract method
    public void brake() {
        System.out.println("SportsBike Brake");
    }
}

class MountainBike extends MotorBike {

    // implementation of abstract method
    public void brake() {
        System.out.println("MountainBike Brake");
    }
}

package oops.capg;

public class Test {

    public static void main(String[] args) {

        MountainBike m1 = new MountainBike();
        m1.brake();
        SportsBike s1 = new SportsBike();
        s1.brake();

    }

}
```

Encapsulation:

```
package com.mds.encapsulation;

public class Employee {

    private int id;
    private String name;
    private int salary;

    public int getId() {
        return id;
    }
    public void setId(int id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public int getSalary() {
        return salary;
    }
    public void setSalary(int salary) {
        this.salary = salary;
    }
}

package com.mds.encapsulation;

public class Test {

    public static void main(String[] args) {

        Employee e =new Employee();

        e.setId(350);
        e.setName("Harika");
        e.setSalary(50000);

        System.out.println(e.getId());
        System.out.println(e.getName());
        System.out.println(e.getSalary());
    }
}
```

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