

```
public class SwitchLesson
{
    public static void main( String[] args )
    {
        int numOfSides;
        char repeat = 'y';
        boolean show = true;
        String figureName = "";
        do
        {
            show = true;
            System.out.print("\nEnter the number of sides: ");
            numOfSides = SavitchIn.readLineInt();
            switch(numOfSides)
            {
                case 3:
                    figureName = "triangle";
                    break;
                case 4:
                    figureName = "square";
                    break;
                case 5:
                    figureName = "pentagon";
                    break;
                case 6:
                    figureName = "hexagon";
                    break;
                default:
                    System.out.println("Invalid input.");
                    show = false;
                    break;
            }
            if( show ) System.out.println("\nA polygon with " + numOfSides +
                " sides is a " + figureName + ".");
            System.out.print("\nrepeat? y/n ");
            repeat = SavitchIn.readLineNonwhiteChar();
        }while( repeat == 'y' );
    }
}
```

OUTPUT:

Enter the number of sides: 2
Invalid input.

repeat? y/n y

Enter the number of sides: 3

A polygon with 3 sides is a triangle.

repeat? y/n y

Enter the number of sides: 4

A polygon with 4 sides is a square.

repeat? y/n y

Enter the number of sides: 5

A polygon with 5 sides is a pentagon.

repeat? y/n y

Enter the number of sides: 6

A polygon with 6 sides is a hexagon.

repeat? y/n y

Enter the number of sides: 7
Invalid input.

repeat? y/n n