### **Introduction of Symmetry**

Symmetry you can say the resemblance one part of the figure to the other part of the same figure. For Example, Alphabetical word H if we divide in two parts vertically we found one part is symmetrical to the other part.

Suppose, we could fold a picture in half such that the left half and the right half math exactly, then such type of picture is called the line or axis of Symmetry.

We can also see that two halves are mirror images of each other. If we place a mirror on the folding line, then the image of one side of the picture will fall exactly on the other side of the picture. This folding line is called the mirror line.

Folding Line (Line of symmetry)

## **Introduction of Symmetry**

A

0

В

P'

# Reflection Symmetry

#### Look at the adjoining figure.

The point 'P' is called image of the point P' in a line AB, if AB is the perpendicular bisector of PP'. The line AB is called mirror line. The points of this line AB are their own images.

#### Let us understand with an Example:

**Example:** Draw the line of symmetry of the following figures:



