What is claimed is:

1. A video decoding method performed by a video decoding apparatus, the method comprising:

receiving a bitstream comprising a picture header for a current picture;

parsing, from the picture header, a first flag related to whether syntax elements for an inter slice are present in the picture header and a second flag related to whether syntax elements for an intra slice are present in the picture header;

deriving prediction samples for blocks in slices in the current picture based on the first flag and the second flag, wherein the prediction samples are derived by performing at least one of an intra prediction or an inter prediction; and

generating reconstructed samples based on the prediction samples,

wherein based on a value of the first flag being equal to 1, the current picture includes one or more slices having a P slice type or B slice type, and the syntax elements for the inter slice are present in the picture header, and

wherein based on a value of the second flag being equal to 1, the current picture includes one or more slices having an I slice type, and the syntax elements for the intra slice are present in the picture header.

2. A video encoding method performed by a video encoding apparatus, the method comprising:

determining types of slices in a current picture, the current picture including the slices;

generating a first flag related to whether syntax elements for an inter slice are present in a picture header related to the current picture and a second flag related to whether syntax elements for an intra slice are present in the picture header; and

encoding image information including the first flag and the second flag,

wherein the first flag and the second flag are comprised in the picture header of the image information,

wherein based on a value of the first flag being equal to 1, the current picture includes one or more slices having a P slice type or B slice type, and the syntax elements for the inter slice are present in the picture header, and

wherein based on a value of the second flag being equal to 1, the current picture includes one or more slices having an I slice type, and the syntax elements for the intra slice are present in the picture header.

3. A non-transitory computer-readable digital storage medium storing a bitstream generated by a video encoding method, the video encoding method comprising:

determining types of slices in a current picture, the current picture including the slices;

generating a first flag related to whether syntax elements for an inter slice are present in a picture header related to the current picture and a second flag related to whether syntax elements for an intra slice are present in the picture header; and

encoding image information including the first flag and the second flag,

wherein the first flag and the second flag are comprised in the picture header of the image information,

wherein based on a value of the first flag being equal to 1, the current picture includes one or more slices having a P slice type or B slice type, and the syntax elements for the inter slice are present in the picture header, and

wherein based on a value of the second flag being equal to 1, the current picture includes one or more slices having an I slice type, and the syntax elements for the intra slice are present in the picture header.

4. A transmission method of data for a video, the method comprising:

obtaining a bitstream for the video, wherein the bitstream is generated based on determining types of slices in a current picture, the current picture including the slices, generating a first flag related to whether syntax elements for an inter slice are present in a picture header related to the current picture and a second flag related to whether syntax elements for an intra slice are present in the picture header, and encoding image information including the first flag and the second flag; and

transmitting the data comprising the bitstream,

wherein the first flag and the second flag are comprised in the picture header of the image information,

wherein based on a value of the first flag being equal to 1, the current picture includes one or more slices having a P slice type or B slice type, and the syntax elements for the inter slice are present in the picture header, and

wherein based on a value of the second flag being equal to 1, the current picture includes one or more slices having an I slice type, and the syntax elements for the intra slice are present in the picture header.