What is claimed is:

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

parsing a first flag related to whether weighted prediction is applied to P slices referring to a picture parameter set, from the picture parameter set of a bitstream;

parsing a second flag related to whether the weighted prediction is applied to B slices referring to the picture parameter set, from the picture parameter set;

parsing a third flag related to whether information on the weighted prediction is present in a picture header of the bitstream or in a slice header of the bistream, from the picture parameter set;

parsing a prediction weighted table syntax from the picture header or the slice header;

generating prediction samples for a current block by performing the weighted prediction on the current block in a current picture based on syntax elements in the prediction weighted table syntax; and

generating reconstructed samples based on the prediction samples,

wherein the third flag is parsed based on the first flag or the second flag, and

wherein the prediction weighted table syntax is parsed from the picture header based on the third flag.

2. The video decoding method of claim 1, wherein the information on the weighted prediction is not present in the slice header based on a value of the third flag being 1, and is not present in the picture header based on the value of the third flag being 0.

3. The video decoding method of claim 1, wherein the third flag is parsed from the picture parameter set based on a value of the first flag or the second flag being 1.

4. The video decoding method of claim 1, wherein for a P slice, the prediction weighted table syntax is parsed from the picture header based on a value of the first flag being 1 and a value of the third flag being 1, and is parsed from the slice header based on the value of the first flag being 1 and the value of the third flag being 0, and

wherein for a B slice, the prediction weighted table syntax is parsed from the picture header based on a value of the second flag being 1 and the value of the third flag being 1, and is parsed from the slice header based on the value of the second flag being 1 and the value of the third flag being 0.

5. The video decoding method of claim 1, wherein L0 number information for the weighted prediction is parsed from the prediction weighted table syntax based on the third flag,

wherein L1 number information for the weighted prediction is parsed from the prediction weighted table syntax based on the third flag,

wherein a value of the L0 number information is the same as a number of weighted reference pictures in a reference picture list 0,

wherein a value of the L1 number information is the same as a number of weighted reference pictures in a reference picture list 1.

6. The video decoding method of claim 5, wherein based on a value of the third flag being equal to 0, the prediction weighted table syntax is parsed from the slice header and both of the L0 number information and the L1 number information is not parsed from the prediction weighted table syntax.

7. The video decoding method of claim 5, wherein a luma_weight_10_flag syntax element indicating whether weighting factors for L0 prediction is present is parsed from the prediction weighted table syntax based on the L0 number information, and

a luma_weight_11_flag syntax element indicating whether weighting factors for L1 prediction is present is parsed from the prediction weighted table syntax based on the L1 number information.

8. The video decoding method of claim 7, wherein a number of luma_weight_10_flag syntax elements comprised in the prediction weighted table syntax is equal to a value of the L0 number information, and

wherein a number of luma_weight_l1_flag syntax elements comprised in the prediction weighted table syntax is equal to a value of the L1 number information.

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

deriving motion information on a current block;

performing weighted prediction on the current block based on the motion information; and

encoding image information comprising a first flag, a second flag, a third flag and information on the weighted prediction,

wherein the first flag is related to whether weighted prediction is applied to P slices referring to a picture parameter set, the second flag related to whether the weighted prediction is applied to B slices referring to the picture parameter set, and the third flag is related to whether information on the weighted prediction is present in a picture header,

wherein the information on the weighted prediction comprises a prediction weighted table syntax,

wherein the third flag is comprised in the picture parameter set based on the first flag or the second flag, and

wherein the prediction weighted table syntax is comprised in the picture header or the slice header based on the third flag.

10. The video encoding method of claim 9, wherein the information on the weighted prediction is not present in the slice header based on a value of the second flag being 1, and is not exist in the picture header based on the value of the second flag being 0.

11. The video encoding method of claim 9, wherein for a P slice, the prediction weighted table syntax is comprised in the picture header based on a value of the first flag being 1 and a value of the third flag being 1, and is comprised in the slice header based on the value of the first flag being 1 and the value of the third flag being 0, and

wherein for a B slice, the prediction weighted table syntax is comprised in the picture header based on a value of the second flag being 1 and the value of the third flag being 1, and is comprised in the slice header based on the value of the second flag being 1 and the value of the third flag being 0.

12. The video encoding method of claim 9, wherein the prediction weighted table syntax comprises L0 number information for the weighted prediction based on the third flag,

wherein the prediction weighted table syntax comprises L1 number information for the weighted prediction based on the third flag

wherein a value of the L0 number information is the same as a number of weighted reference pictures in a reference picture list 0, and

wherein a value of the L1 number information is the same as a number of weighted reference pictures in a reference picture list 1.

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

deriving motion information on a current block;

performing weighted prediction on the current block based on the motion information; and

encoding image information to generate the bitstream, wherein the image information comprises a first flag, a second flag, a third flag and information on the weighted prediction,

wherein the first flag is related to whether weighted prediction is applied to P slices referring to a picture parameter set, the second flag related to whether the weighted prediction is applied to B slices referring to the picture parameter set, and the third flag is related to whether information on the weighted prediction is present in a picture header,

wherein the information on the weighted prediction comprises a prediction weighted table syntax,

wherein the third flag is comprised in the picture parameter set based on the first flag or the second flag, and

wherein the prediction weighted table syntax is comprised in the picture header or the slice header based on the third flag.

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

obtaining a bitstream for the video, wherein the bitstream is generated based on deriving motion information on a current block, performing weighted prediction on the current block based on the motion information, and encoding image information comprising a first flag, a second flag, a third flag and information on the weighted prediction; and

transmitting the data comprising the bitstream,

wherein the first flag is related to whether weighted prediction is applied to P slices referring to a picture parameter set, the second flag related to whether the weighted prediction is applied to B slices referring to the picture parameter set, and the third flag is related to whether information on the weighted prediction is present in a picture header,

wherein the information on the weighted prediction comprises a prediction weighted table syntax,

wherein the third flag is comprised in the picture parameter set based on the first flag or the second flag, and

wherein the prediction weighted table syntax is comprised in the picture header or the slice header based on the third flag.