

Contents

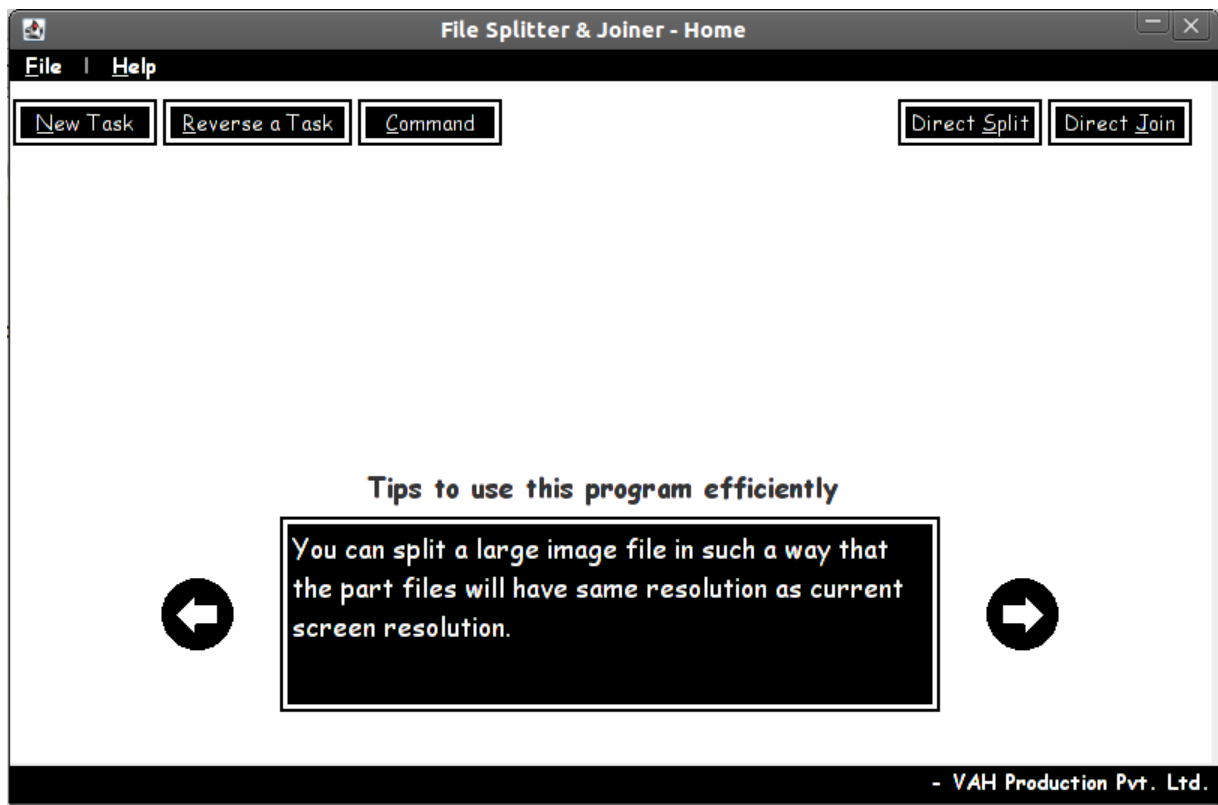
Sr. No.	Topic	Page No.
1	Bmp Split – Equal Parts	3
1.1	Main Screen	3
1.2	Bmp Split : Step 01	4
1.3	Input file (kid2.bmp)	5
1.4	Bmp Split : Step 02	6
1.5	Bmp Split : Step 03	7
1.6	Bmp Split : Step 04	8
1.7	Preview of a split file	9
1.8	Destination directory	9
1.9	Message box	10
1.10	Output : Split files	10
1.11	LOG file	11
2	Bmp Split – Crop Operation	12
2.1	Select crop	12
2.2	Crop using pixels	13
2.3	Crop graphically	14
2.4	Cropped part – Output file	15
3	Bmp Join	16
3.1	Step 01	16
3.2	Step 02	17
3.3	Join helper box with files unarranged	18
3.4	Join helper box with files browsed & arranged	19

3.5	Browsing of files completed	20
3.6	Output – Joined file	21
4	Command Window	22

1. Bmp Split – Equal Parts

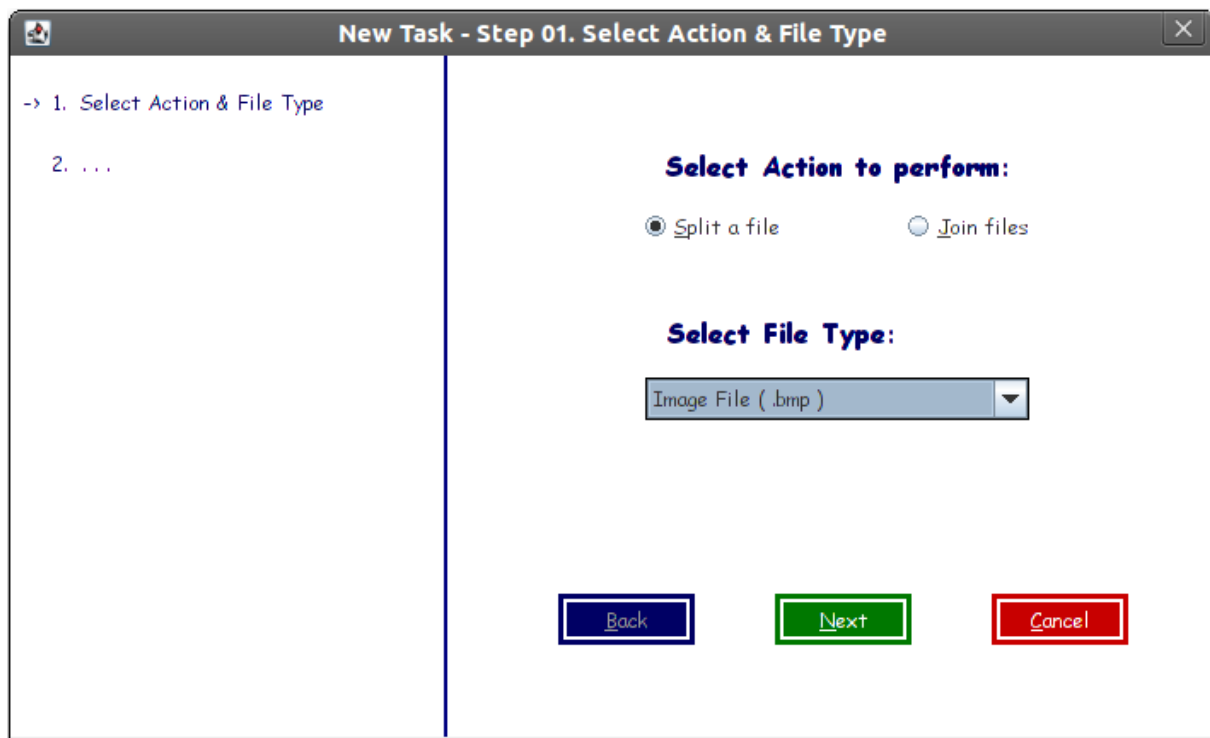
1.1 Main Screen

➤ When *the Software* is started the following screen appears.



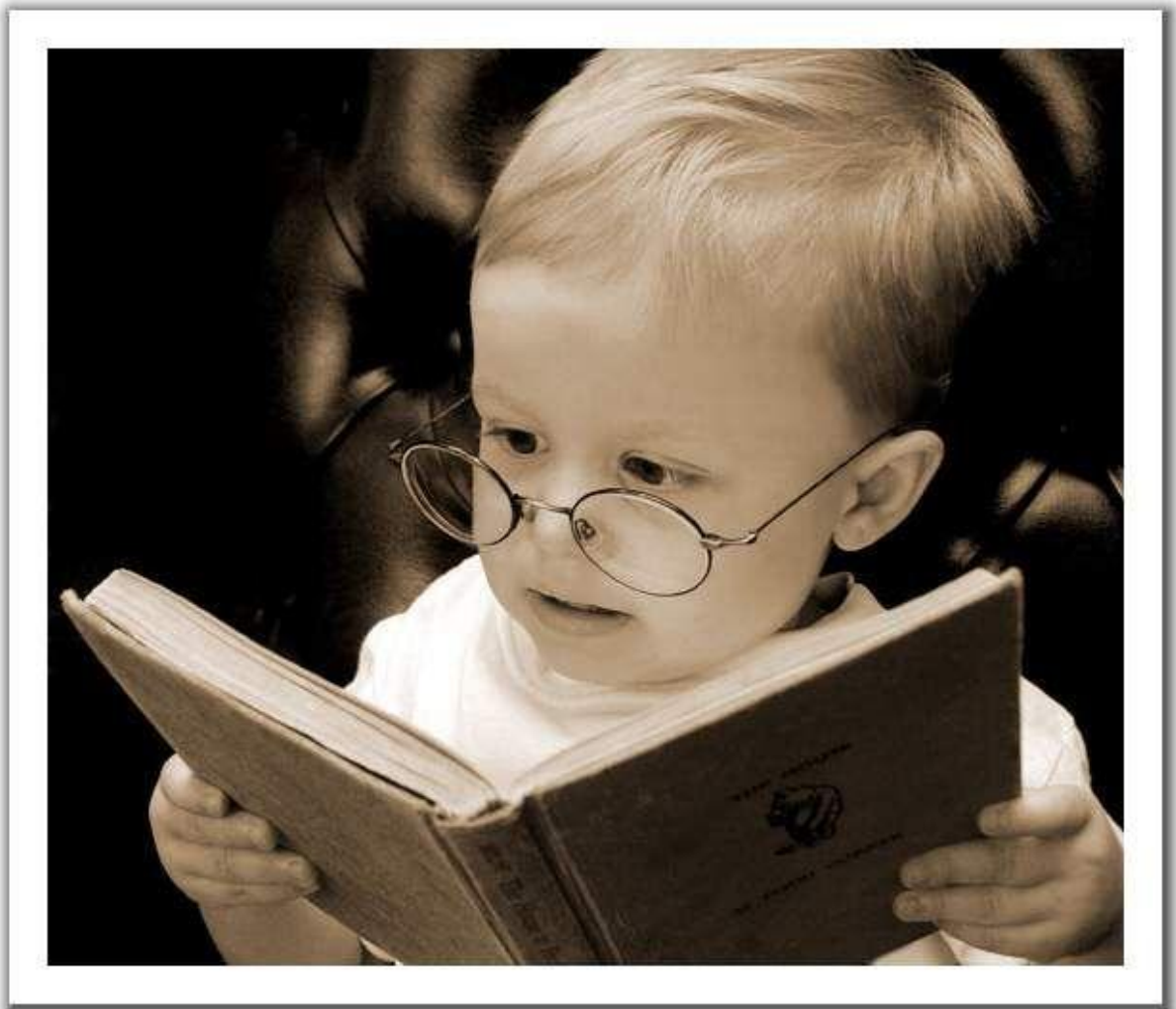
1.2 Bmp Split : Step 01

➤ When **File > New Task** is selected, the following screen appears.



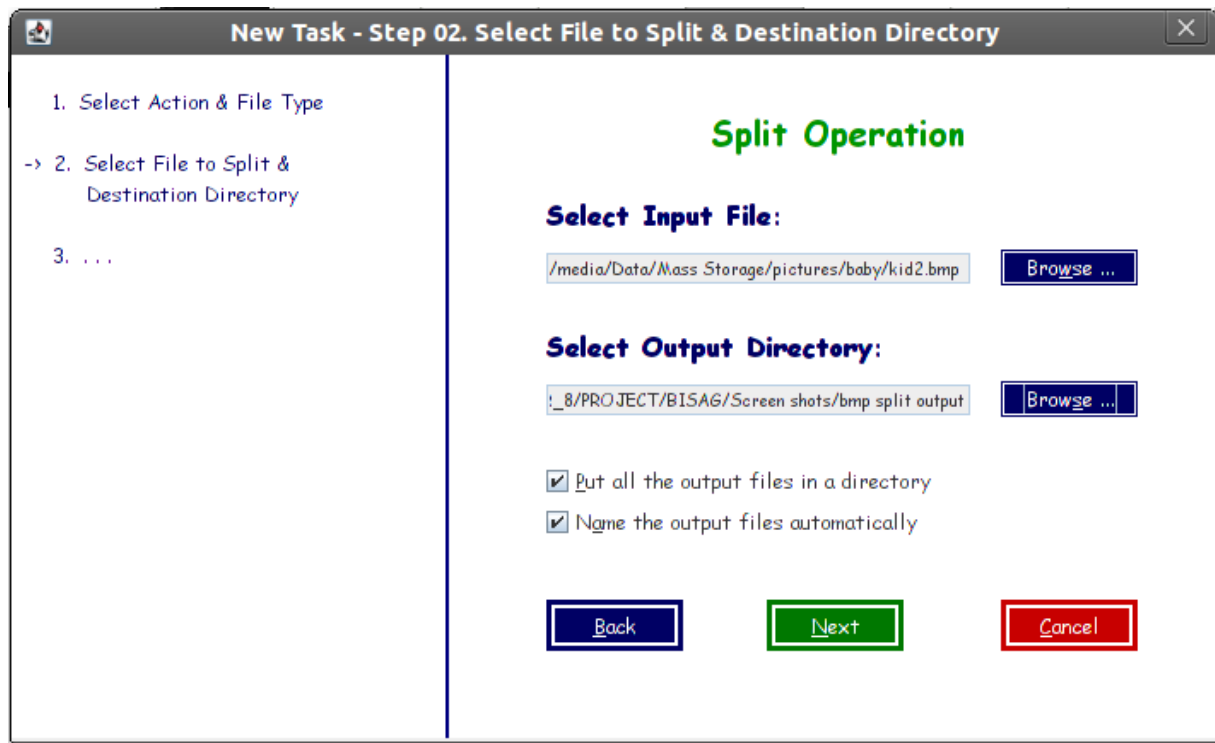
1.3 Input file (kid2.bmp)

- Following is the input file which will be split in this operation.



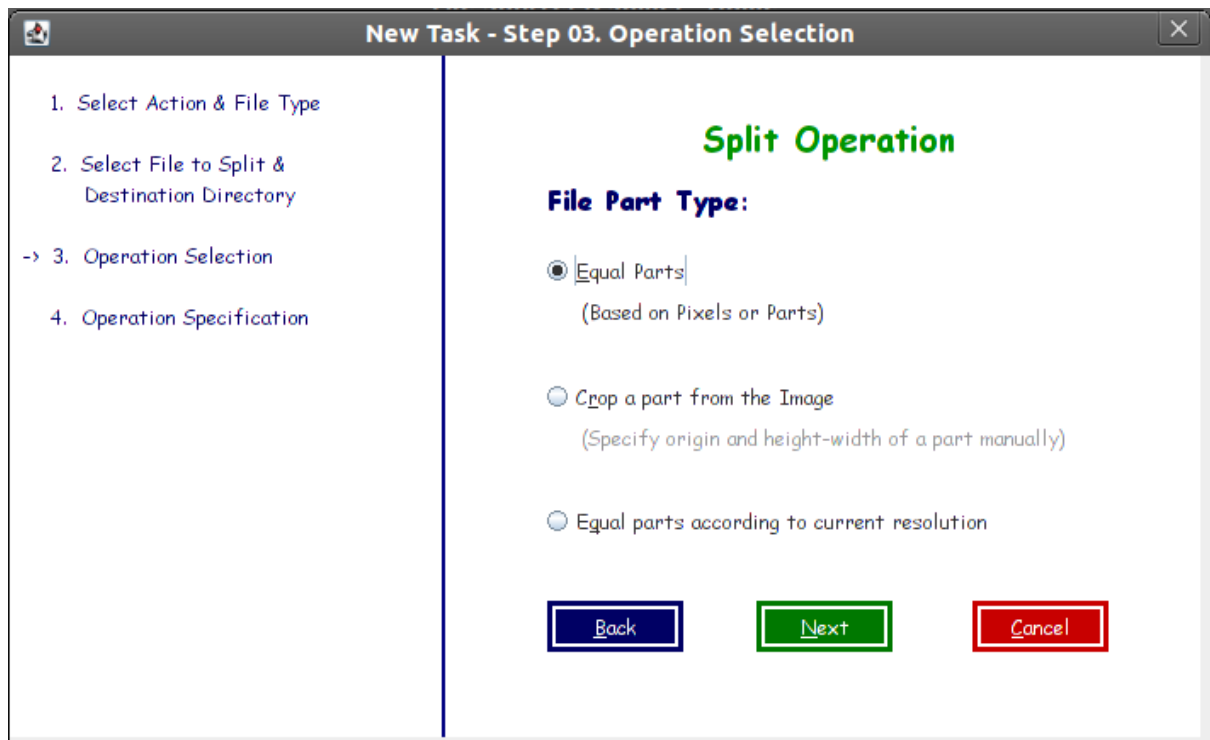
1.4 Bmp Split : Step 02

- Select Input file (kid2.bmp in this case) and the output directory where the split files will be placed.
- Also check the options provided below in the screen.



1.5 Bmp Split : Step 03

- Select the option whether you want ...
- to crop a part from the image, or
 - to make specific number of parts of the image, or
 - all parts to have specific number of pixels in width and height
 - all parts to have size which is same as current resolution of the screen.



1.6 Bmp Split : Step 04

- Specify the **number of parts**, or the **number of pixels** in width and height.
- You can see the **preview** of a specific part, also.
- In preview box, the **size** specifies the size of the part which is selected in the preview box by **Column No.** and **Row No.**

New Task - Step 04. Operation Specification

1. Select Action & File Type

2. Select File to Split & Destination Directory

3. Operation Selection

-> 4. Operation Specification

Split Operation

☒ Horizontal Parts ☐ No. of Parts
Width(px): 627 ☐ Pixels

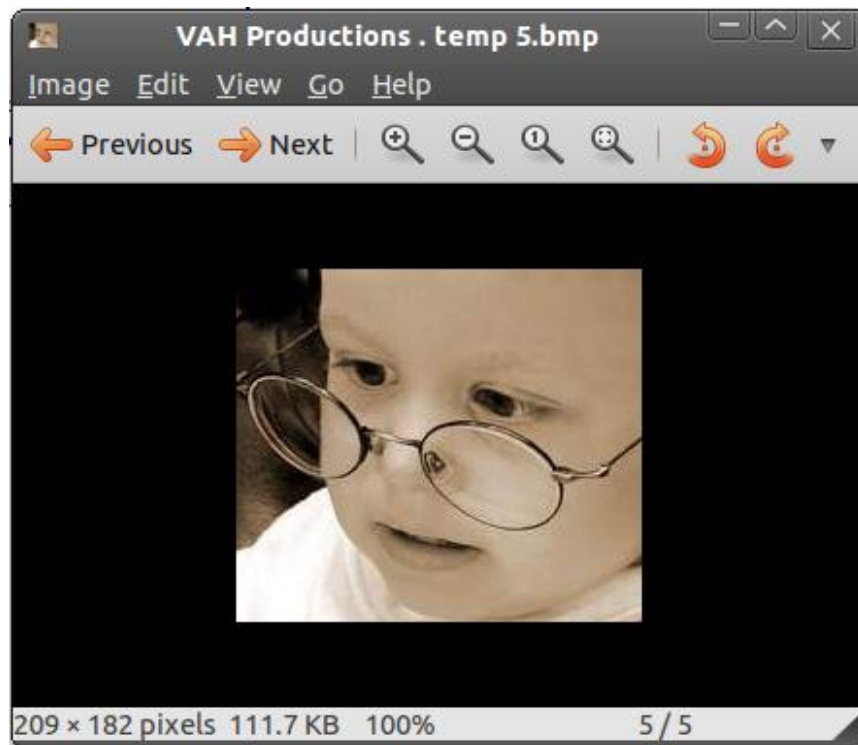
☒ Vertical Parts ☐ No. of Parts
Height(px): 544 ☐ Pixels

Preview

Column No. Row No.
Size: 167 KB 854 Byte(s)

1.7 Preview of a split file

- Following image is the preview of the part which has Column No=2 and Row No=2, when the image is split in 9 parts, i.e. 3 rows and 3 columns.



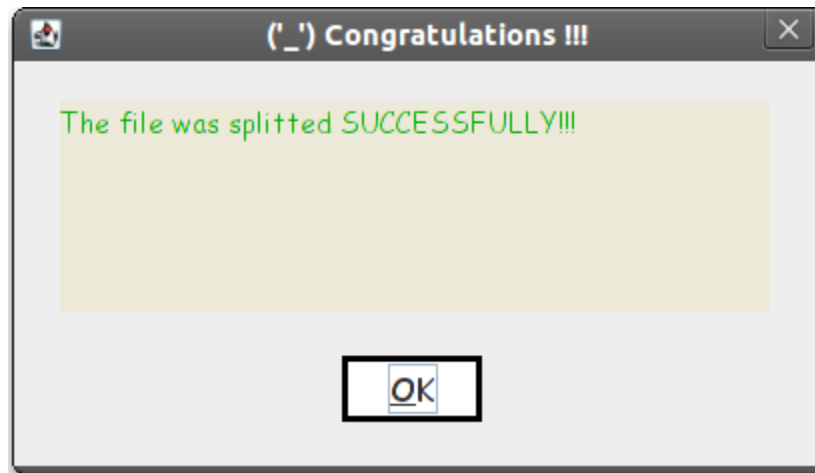
1.8 Destination directory

- Specify the destination directory where you want to place all the split files.



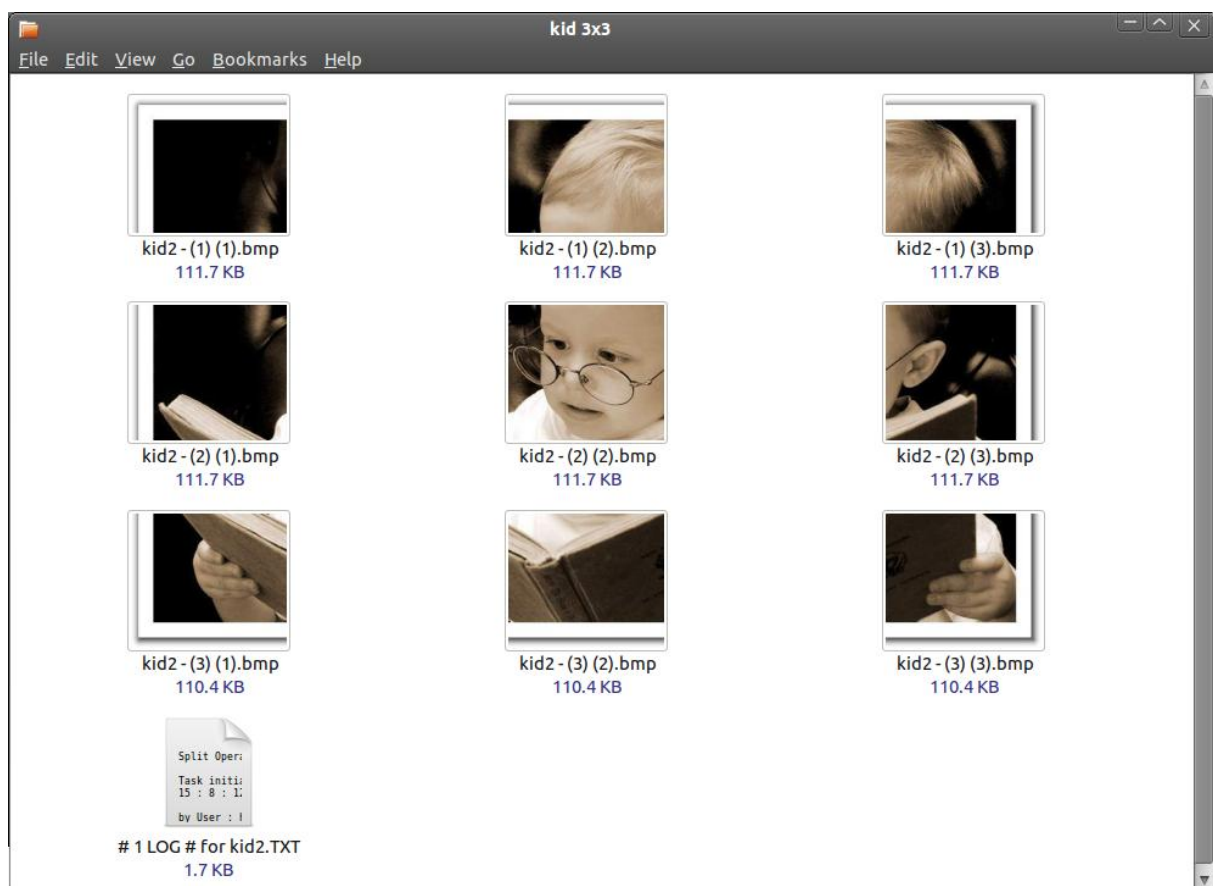
1.9 Message box

- The message box notifies that the operation has been completed successfully or with the error encountered during the operation.



1.10 Output : Split files

- Following figure shows the output files in the Thumbnail view.



1.11 LOG file

- The LOG file describes the operation performed.
- Reverse operation can also be carried out using the LOG file.
- The LOG file should not be modified to achieve the reverse operation automatically.

```

# 1 LOG # for kid2.TXT (Welcome) - gedit

1
2 Split Operation (.bmp)
3
4 Task initiated at :
5 15 : 8 : 12 (hh:mm:ss) on 28 - 3 - 2011 (dd-mm-yyyy)
6
7 by User : hitesh
8 on System : Linux i386 ( version : 2.6.35-25-generic )
9
10 Input file : /media/Data/Mass Storage/pictures/baby/kid2.bmp ( Size : 627 x 544 (in px) , 1024950 Bytes )
11 Output directory : /media/Welcome/Viral/MY_A/COURSE/SEMWESTER_8/PROJECT/BISAG/Screen shots/bmp split output/kid 3x3/
12 Output file ( 1 ) ( 1 ) : kid2 - (1) (1).bmp ( Size : 209 x 182 (in px) , 114350 Bytes , (0,0)(208,181) )
13 Output file ( 1 ) ( 2 ) : kid2 - (1) (2).bmp ( Size : 209 x 182 (in px) , 114350 Bytes , (209,0)(417,181) )
14 Output file ( 1 ) ( 3 ) : kid2 - (1) (3).bmp ( Size : 209 x 182 (in px) , 114350 Bytes , (418,0)(626,181) )
15 Output file ( 2 ) ( 1 ) : kid2 - (2) (1).bmp ( Size : 209 x 182 (in px) , 114350 Bytes , (0,182)(288,363) )
16 Output file ( 2 ) ( 2 ) : kid2 - (2) (2).bmp ( Size : 209 x 182 (in px) , 114350 Bytes , (209,182)(417,363) )
17 Output file ( 2 ) ( 3 ) : kid2 - (2) (3).bmp ( Size : 209 x 182 (in px) , 114350 Bytes , (418,182)(626,363) )
18 Output file ( 3 ) ( 1 ) : kid2 - (3) (1).bmp ( Size : 209 x 180 (in px) , 113094 Bytes , (0,364)(208,543) )
19 Output file ( 3 ) ( 2 ) : kid2 - (3) (2).bmp ( Size : 209 x 180 (in px) , 113094 Bytes , (209,364)(417,543) )
20 Output file ( 3 ) ( 3 ) : kid2 - (3) (3).bmp ( Size : 209 x 180 (in px) , 113094 Bytes , (418,364)(626,543) )
21
22 Selected Options :
23 - Put all Output Files in a directory
24 - AutoName all Output Files
25 - Equal Parts
26 - Horizontal Parts
27 - No. of Parts : 3
28 - Vertical Parts
29 - Maximum No. of Vertical Pixels in each part : 182
30
31 Time taken by the process : 15.784 seconds
32
33 Task completed at :
34 15 : 10 : 16 (hh:mm:ss) on 28 - 3 - 2011 (dd-mm-yyyy)

```

2. Bmp Split – Crop Operation

2.1 Select crop

- Select the crop operation in this step if you want to crop a part from the image.



2.2 Crop using pixels

- Specify the pixel values you want to crop.
- The pixel numbering begins with the 0(zero).
- See the **Preview** after entering values.
- If you want to crop the image graphically, select **Crop Visually**.

New Task - Step 04. Operation Specification

1. Select Action & File Type

2. Select File to Split & Destination Directory

3. Operation Selection

-> 4. Operation Specification

Split Operation

Select Co-ordinates of left-top point:

X : Y :

Select Co-ordinates of right-bottom point:

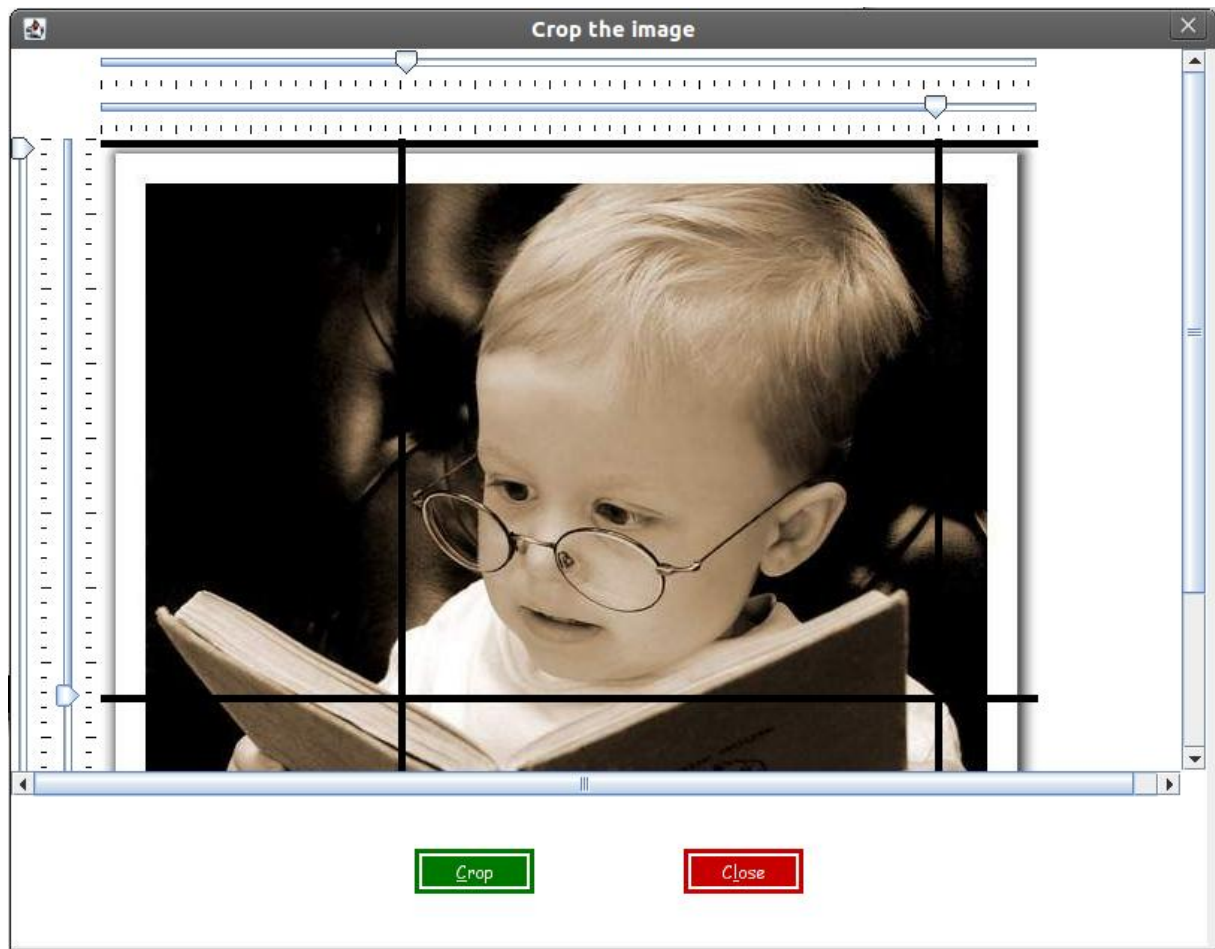
X : Y :

Select Width of the Part:

Select Height of the Part:

2.3 Crop graphically

- Move the sliders using mouse or keyboard to select the part you want to crop.



2.4 Cropped part – Output file

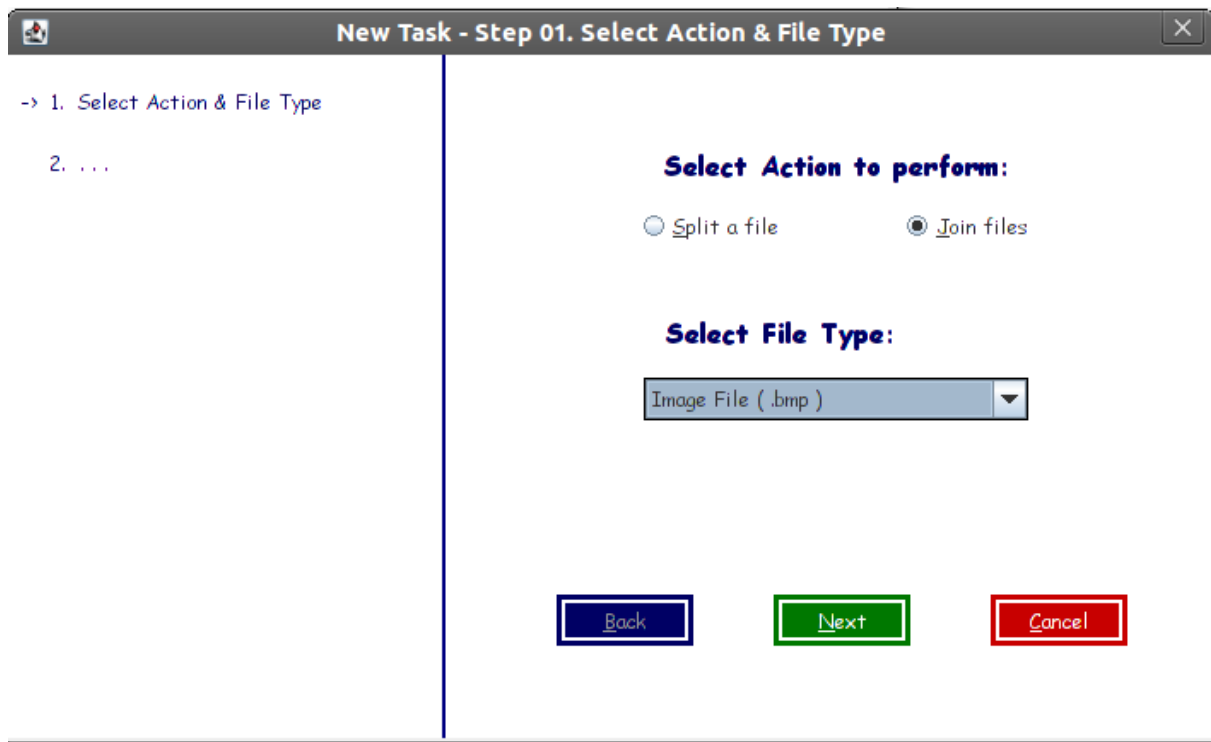
- This is the output file cropped by *the Software*.



3. Bmp Join

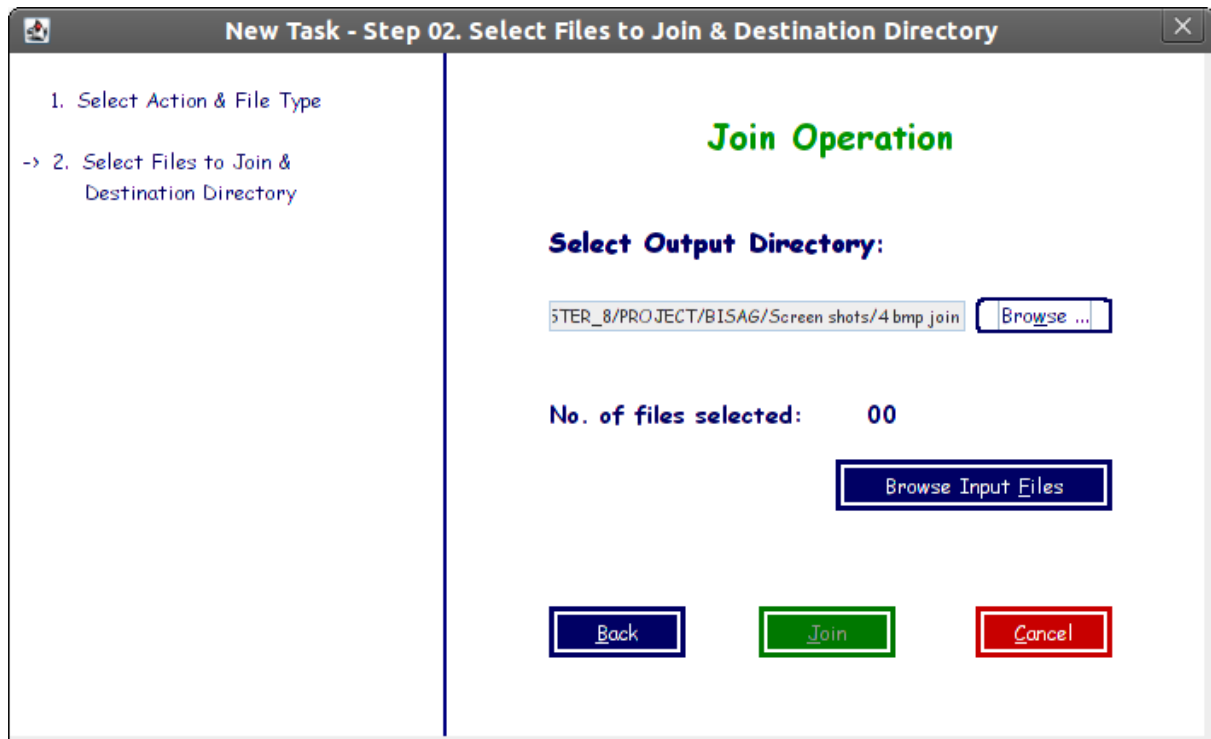
3.1 Step 01

➤ When **File > New Task** is selected, the following screen appears.



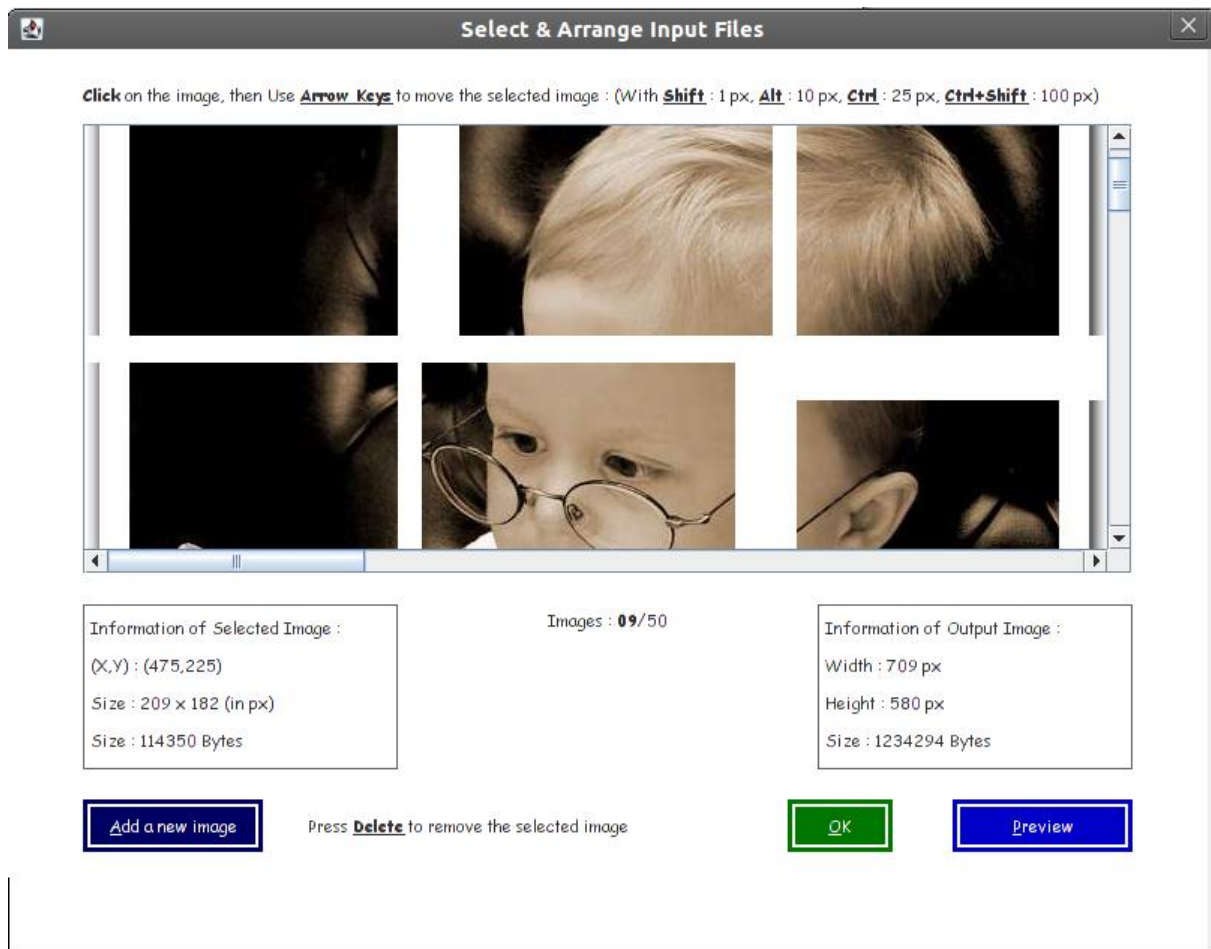
3.2 Step 02

- Select the Output directory where you want to place the output file.
- To select and arrange input files, select **Browse Input Files**, which will show up a Join Helper Box.



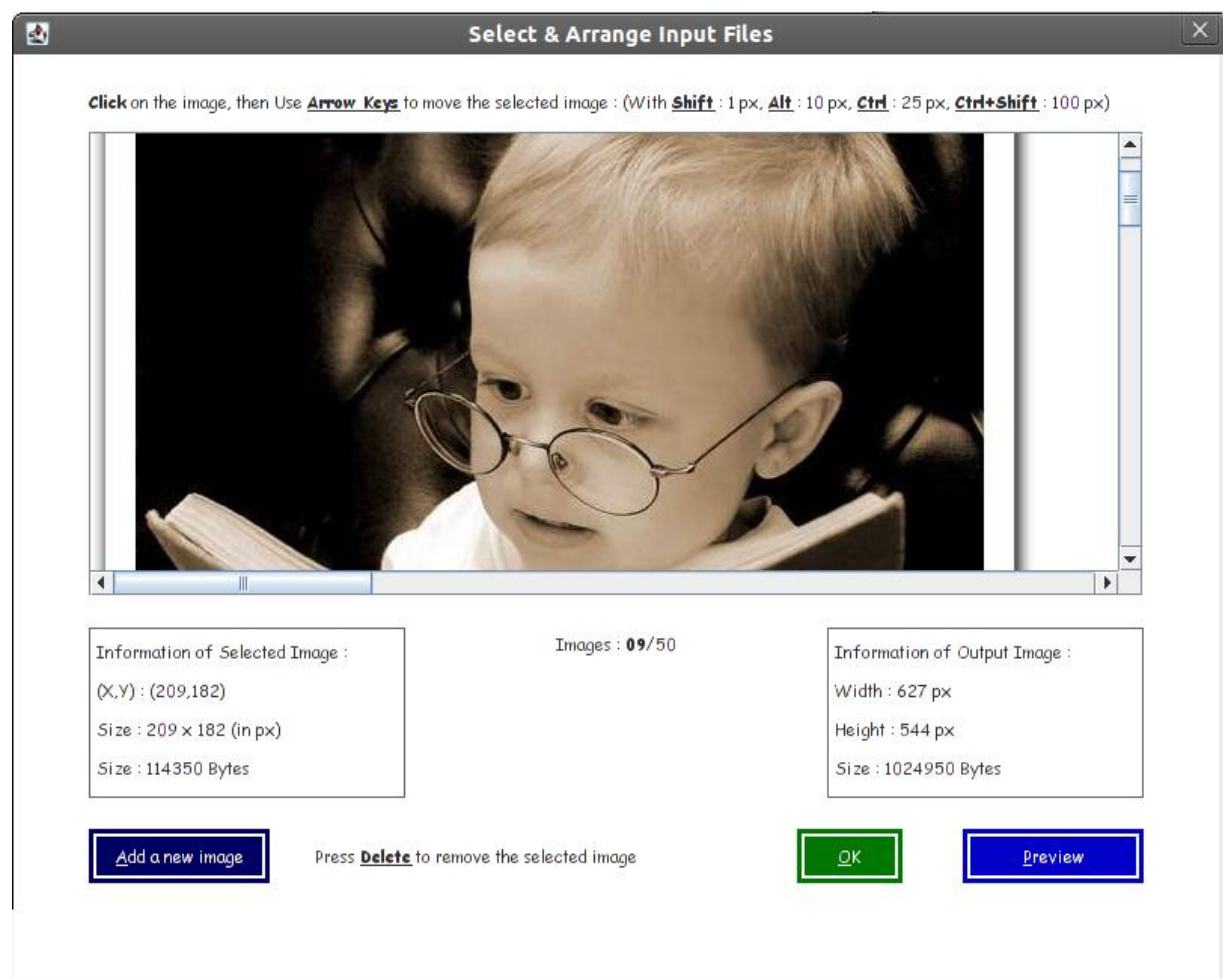
3.3 Join helper box with files unarranged

- Here nine files have been added using **Add a new image**.
- Six parts are visible in the figure shown below.



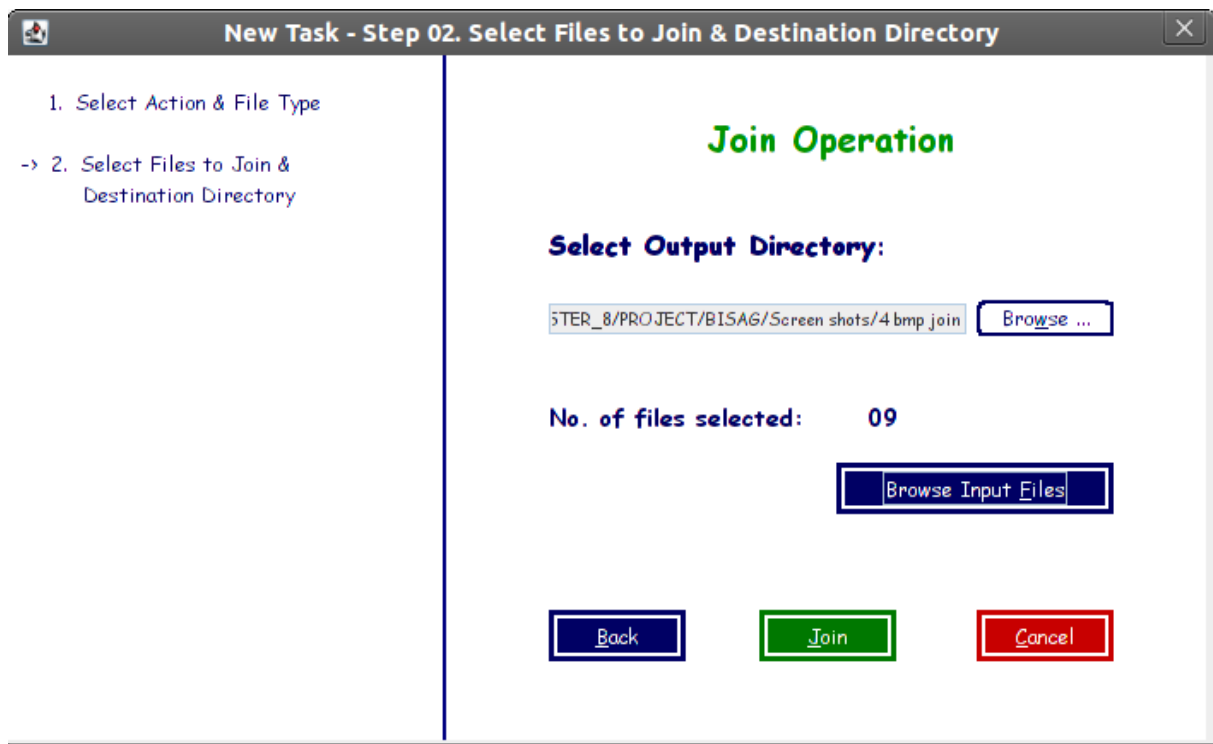
3.4 Join helper box with files browsed & arranged

- All images have been arranged using Keyboard as per the guideline shown above in the dialog box.
- Information of the selected image part and Output image (which will be created) is displayed below in it.
- Select **Preview** to see the preview, **OK** to complete.



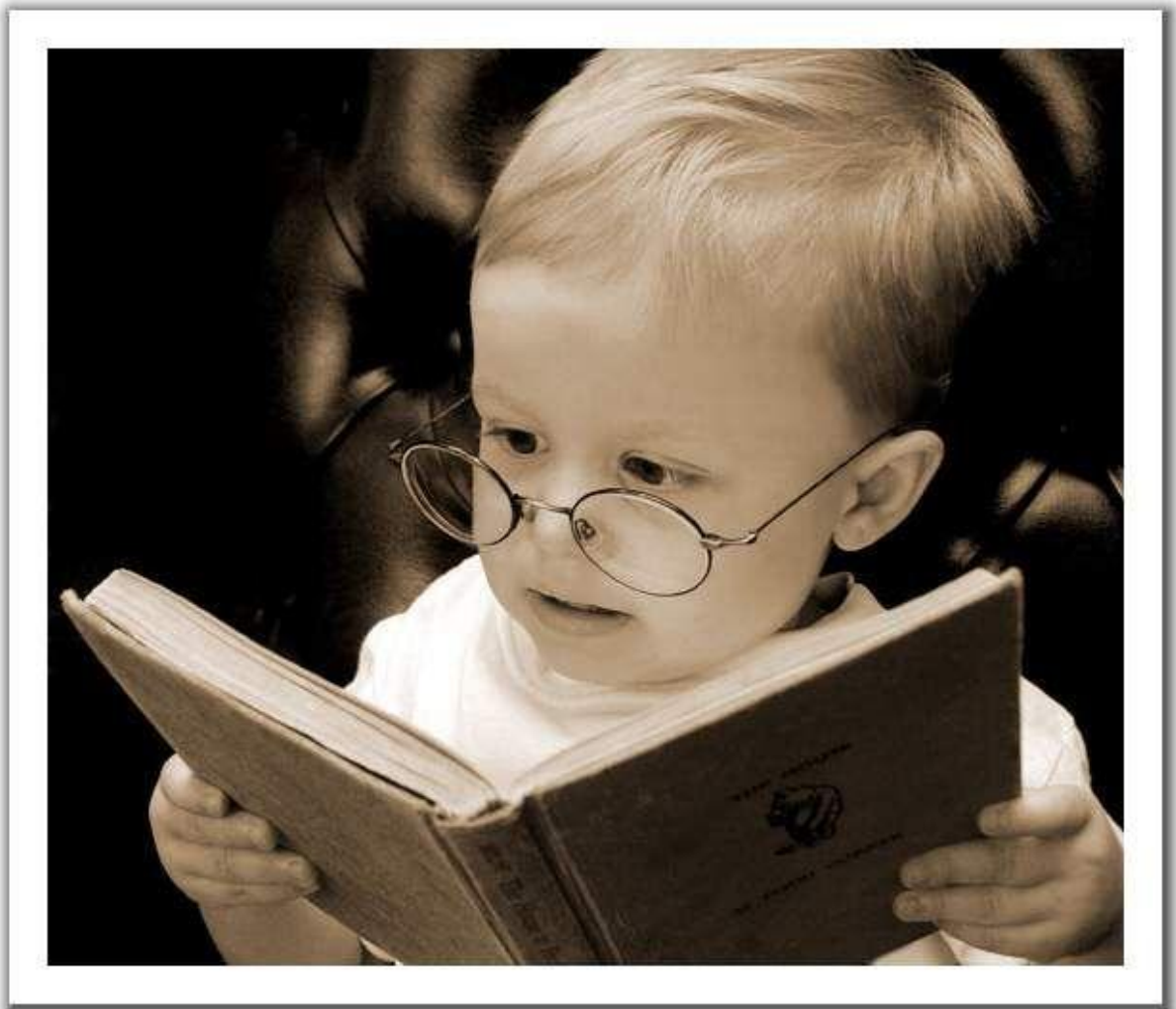
3.5 Browsing of files completed

- Here **No. of files selected** has been displayed.
- Press **Join** to join the images as shown in the preview.



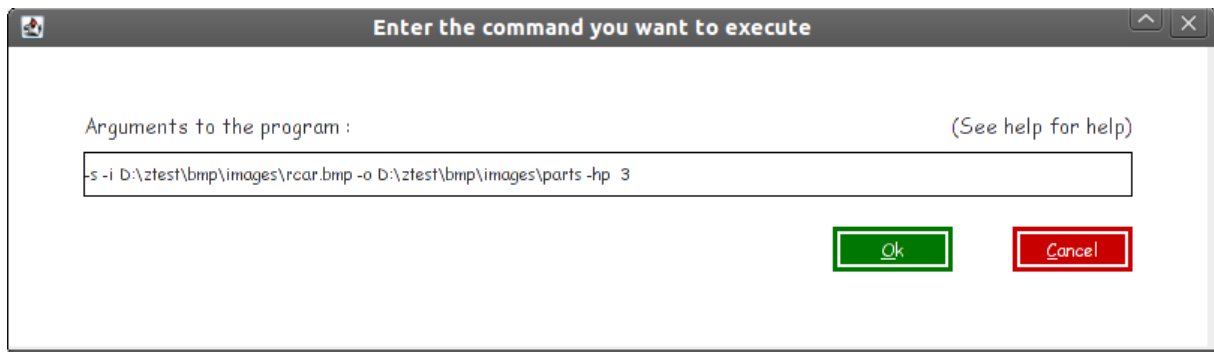
3.6 Output – Joined file

- This is the output file which is the join of nine image files.



4. Command Window

- If you want to perform an operation using a command, you can do it here.



- **Syntax :**

[switch-type] [switch-options]

[switch-type]	[switch-options]
-s (to split)	-i <input file-path> -o <output file-path> -p <no. of parts> -b <max no. of bytes in a part> -u <list of no. of bytes separated by space>
-j (to join)	-i <input file-paths separated by space > -o <output file-path>
-cls (to split)	-i <input file-path> -o <output file-path> -p <no. of parts> -b <max no. of bytes in a part> -u <list of no. of bytes separated by space>
-clj (to join)	-i <input file-paths separated by space > -o <output file-path>