

# Programming Fundamentals LAB – BSEF19

(Both Morning and Afternoon)

## Lab 13 –13-05-2020

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### Task 01 (50)

- Understand code in ppm2D.cpp file, do not change it at all.
- Compile and execute the code. It reads “brian\_kernighan\_ascii.ppm” file and write/overwrites a new file “brian\_kernighan\_new.ppm”. View the both files using IrfanView software.
- Comments lines 109, 110, and 111 and uncomment 114, 115, and 116. Again, repeat the task 01/b.
- Comment / uncomment the next line as advised in the code and repeat the task 01/b each time.
- Write code for rotation of image at 180 degree and obviously repeat the task 01/b.

### Task 02 (10+10+10)

Split the code into three files.

- ppm.h // contains structure and functions declarations, apply header guards
- ppm.cpp // contains definition of the function declared above, in this file include above file too, along with other required includes.
- im.cpp // contain main functions only, in this file include ppm.h too, along with other required includes.
- Make a project, or otherwise compile as execute the code to test.

### Task 03 (20)

This time read the same image but write image of the double of its original width. In extra space, you have to put the horizontally flipped image.



# Thanks, for your patience