



Cairo University



Faculty of Computers and
Artificial Intelligence

STRUCTURED PROGRAMMING (CS112)

(Assignment 3)

By:

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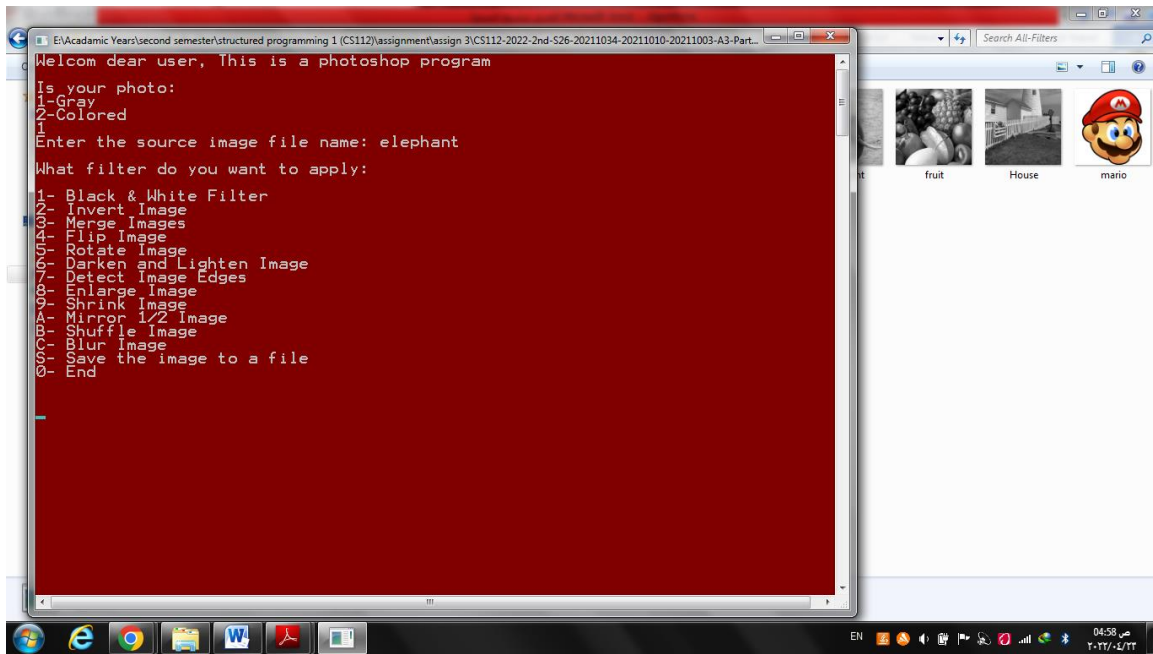
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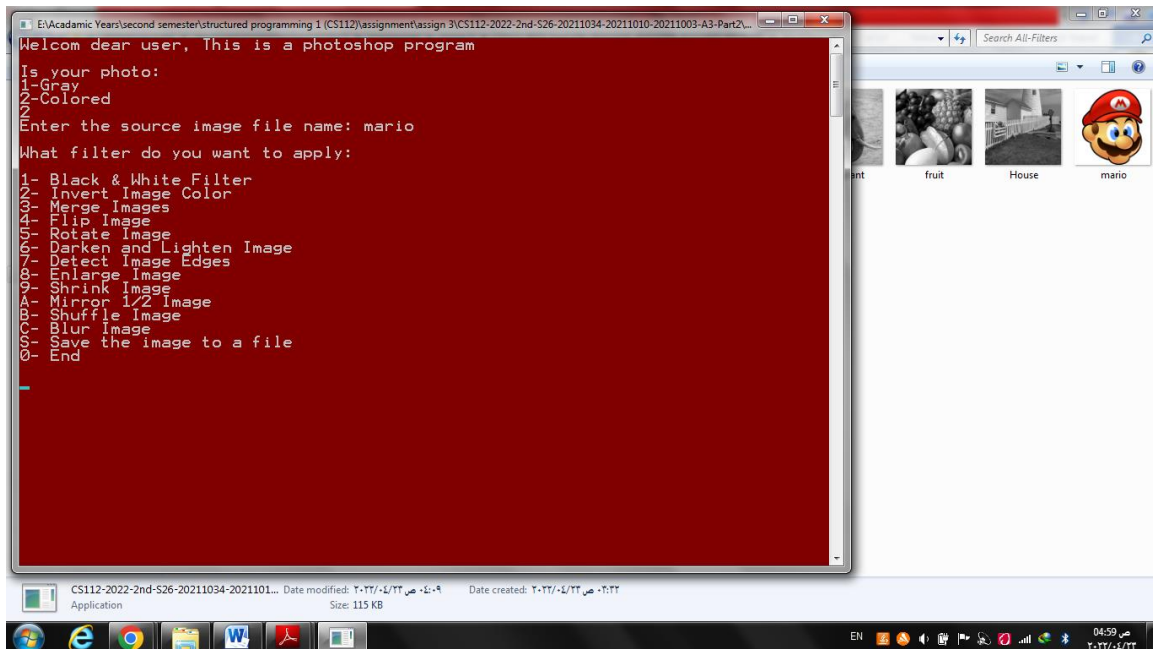
Dr. Mohammad El-Ramly

Task 1 (group task): Filters Menu

1- Gray:



2- Color:



Task 2: Filters

Doaa Ali (20211034)

Filter 3: Merge images (algorithm)

- 1- Take the two images from the user.
- 2- Loop on pixels in both images, and take each pixel from the image and its opposite in other image.
- 3- Take the average of two pixels and save it in a new image.

Filter 6: Darken and Lighten Image (algorithm)

- 1- Take the image from the user.
- 2- Ask user if he wants to darken or lighten
- 3- If darken : (0 means black)
 - a. Loop on pixels in the image.
 - b. Update the value by divide it by 2.
- 4- If lighten: (255 means white)
 - a. Loop on pixels in the image.
 - b. If its value ≥ 128 :
 - i. Update the value and make it = 255.
 - c. Else :
 - i. Update the value by multiply by 2.

Filter 9: Shrink image (algorithm)

- 1- Ask user how much he wants to shrink ($\frac{1}{2}$, $\frac{1}{3}$ or $\frac{1}{4}$).
- 2- Take the input from user.
- 3- When user chooses one:
 - a. Set jump = denominator (2, 3 or 4) (which means how many pixels we take to shrink).
 - b. Set num = jump^2 (the square that we will take its average).
 - c. Set blank = SIZE/denominator (2, 3 or 4) (the rest of the image that it's blank).
- 4- Loop on the image and increase counters by jump.
- 5- And each (jump) pixels in vertically and horizontally take their average, and loop on the new image (by 1) and put the average in the pixel.
- 6- After shrink, we make the rest of new image white (255).

Filter C: Blur Image

- 1- Loop on the original image and new image (increase counters by 1).
- 2- Take the average of 3x3 pixels (we will take first 3x3 pixels, and by increasing counters by 1 (moving on pixel), we will take the second 3x3 pixels, etc).
- 3- Put the average in the pixels (in order) in the new image.

Ahmed Yasser (20211010)

Filter 1: Black and white filter (algorithm)

1. Load the Image
2. Loop for each pixel in the image
3. Get the average of the pixels
4. Loop for each pixel in the image
5. Compare each pixel with the average
6. If pixel > average
 - a. Assign the pixel to 255
7. Else
 - a. Assign the pixel to 0
8. Save the image
9. End

Filter 4: Flip image (algorithm)

1. Load the image
2. Ask the user if he wants a vertical or horizontal flip
3. If user wants a vertical flip
 - a. Loop for each Colum in the image and replace the last columns with the first columns
 - b. Save the image
4. Else if user wants a horizontal flip
 - a. Loop for each row in the image and replace the last rows with the first rows
 - b. Save the image
5. End .

Filter 7: Detect Image Edges (algorithm)

- 1- Load image.
- 2- Convert the image into black & white image.
- 3- Loop on the image.
- 4- Check if the pixel is an edge pixel.
- 5- Make another image consist of edge pixels.
- 6- Save image.

Filter A: Mirror Image (algorithm)

1. Load image.
2. Ask user which half of the image that he wants to mirror.
3. If he wants the left half:
 - a. Apply the function on the left half.
- 4- Else if he wants the right half:
 - a. Apply the function on the right half.
- 5- Else if he wants the Upper half:
 - a. Apply the function on the upper half.
- 6- Else he wants the down half:
 - a. Apply the function on the down half.
- 7- Save

Ahmed Ahmed (20211003)

Filter 2: Invert image (algorithm)

- 1- Take input from user as name of image.
- 2- Declare 2d array and insert every pixel into it.
- 3- Loop through every element of the 2d array:
 - A- If it is black make it white.
 - B- If it is white make it black.
 - C- If it is grey make it the opposite shade of grey.
- 4- Save the image.

Filter 5: Rotate Image (algorithm)

- 1- UPSIDE DOWN
 - a. for every pixel in the 2d matrix of pixels
 - i. 1-make every first row and pixel the last row and pixel
 - ii. and place it in another 2d matrix
 - b. place every pixel in the second array back in the first array.
- 2- ROTATE TWO SEVENTY
 - a. make every row a column and every column a row
 - b. place every pixel in the second array back in the first array
- 3- ROTATE NINETY
 - a. call upside down then call two seventy.
- 4- ROTATE_G
 - a. take input from user as single integer
 - b. call correct function according to input

Filter 8: Enlarge photo (algorithm)

- 1- Take the requested image name from user.
- 2- Load every pixel of it in a 2d array.
- 3- Take a single integer input from user to choose which quarter to modify.
- 4- Adjust the starting values of X and Y according to user.
- 5- Declare row = 0.
- 6- Make a for loop that starts at the value of X and ends at the size of the image.
- 7- Make col = 0 inside the for loop.
- 8- Place each pixel from the 2d array of the image into another 2d array, and place it two more times for each pixel.
- 9- Copy the row which was placed into a row under it.
- 10- Increment row by 2 to change the row that is being changed.

Filters B: Shuffle Image (algorithm)

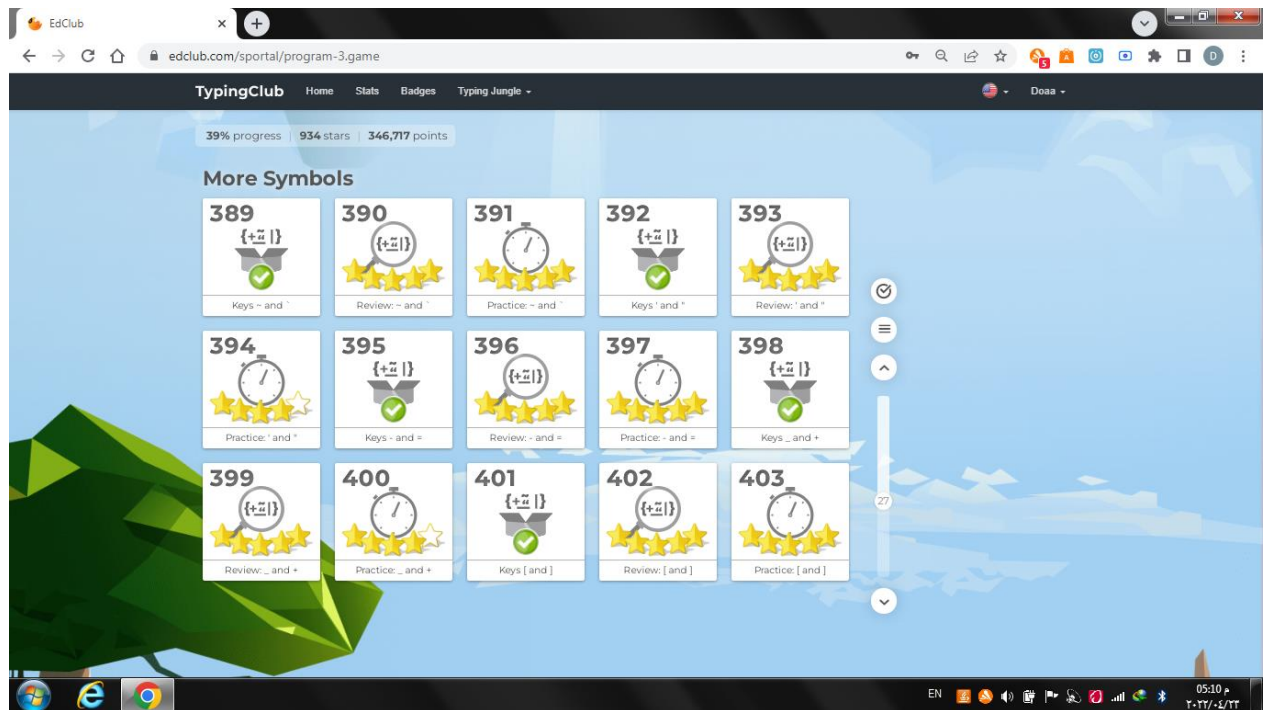
- 1- Take input from user and modify starting rows and columns accordingly.
- 2- Make four for loops, one for each quarter of the image.
- 3- Input the pixels into the 2d array according to the user's input.

All filters:

1. Include all needed libraries.
2. Define each filter function alone.
3. In main function:
 - a. Let user choose if the image gray or colored.
 - b. If gray:
 - i. Do while loop to display a list with all possible gray filters, save the image and end the program.
 - ii. Once the user chooses an option, we call its function.
 - c. If colored:
 - i. Do while loop to display all possible colored filters, save the image and end the program.
 - ii. Once the user chooses an option, we call its function.

Task 3: Typing Club

Doaa Ali (20211034):



Ahmed Yasser (20211010):

The screenshot shows the TypingClub website interface. At the top, the navigation bar includes the TypingClub logo, links for Home, Stats, Badges, and Typing Jungle, and a user profile for 'ahmed'. Below the navigation bar, a progress bar indicates '56% progress', '1,590 stars', and '695,744 points'. The main content area is titled 'More Symbols' and displays a grid of 15 typing practice cards. Each card features a number, a symbol, a clock icon, a star rating, and a description of the symbol's use. The cards are arranged in three rows of five. The first row contains cards 389 through 393, the second row contains cards 394 through 398, and the third row contains cards 399 through 403. Cards 402 and 403 are marked with a lock icon, indicating they are not yet available for practice. A vertical scrollbar on the right side of the grid shows the current position within the list of symbols.

Card Number	Symbol	Icon	Star Rating	Description
389	{+~ }	Green checkmark	5 stars	Keys ~ and ^
390	{+~ }	Yellow star	5 stars	Review: ~ and ^
391	{+~ }	Yellow star	5 stars	Practice: ~ and ^
392	{+~ }	Green checkmark	5 stars	Keys ^ and ~
393	{+~ }	Yellow star	5 stars	Review: ^ and ~
394	{+~ }	Yellow star	5 stars	Practice: ^ and ~
395	{+~ }	Green checkmark	5 stars	Keys ~ and =
396	{+~ }	Yellow star	5 stars	Review: ~ and =
397	{+~ }	Yellow star	5 stars	Practice: ~ and =
398	{+~ }	Green checkmark	5 stars	Keys _ and +
399	{+~ }	Yellow star	5 stars	Review: _ and +
400	{+~ }	Yellow star	5 stars	Practice: _ and +
401	{+~ }	Yellow star	5 stars	Keys [and]
402	{+~ }	Yellow star	5 stars	Review: [and]
403	{+~ }	Yellow star	5 stars	Practice: [and]

Ahmed Ahmed (20211003):

TypingClub Home Stats Badges Typing Jungle

51% progress | 1,460 stars | 766,440 points

393 Review: ' and " 5 stars	394 Practice: ' and " 5 stars	395 Keys - and = 5 stars	396 Review: - and = 5 stars
397 Practice: - and = 5 stars	398 Keys _ and + 5 stars	399 Review: _ and + 5 stars	400 Practice: _ and + 5 stars
401	402	403	404

Close x

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Task 4 (group task): Git Commands

```
Cmder

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters
λ git init
Initialized empty Git repository in E:/Academic Years/second semester/structured programming 1 (CS112)/assignment/assign 3/CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2/all-filters/.git/

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters(master)
λ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part1.pdf
    CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp
    House.bmp
    bmp1ib.cpp
    bmp1ib.h
    crowd.bmp
    elephant.bmp
    fruit.bmp
    mario.bmp
    parots.bmp
    photographer.bmp

nothing added to commit but untracked files present (use "git add" to track)

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters(master)
λ git add *

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters(master)
λ git commit -m "all filters repo created by Doaa"
[master (root-commit) 81f364d] all filters repo created by Doaa
11 files changed, 1179 insertions(+)
create mode 100644 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part1.pdf
create mode 100644 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp
create mode 100644 House.bmp
create mode 100644 bmp1ib.cpp
create mode 100644 bmp1ib.h
create mode 100644 crowd.bmp
create mode 100644 elephant.bmp
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2 Dir(s) 107,826,491,392 bytes free

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(main -> origin)
λ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part1.pdf
    CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp
    House.bmp
    bmp1ib.cpp
    bmp1ib.h
    crowd.bmp
    elephant.bmp
    fruit.bmp
    mario.bmp
    parots.bmp
    photographer.bmp

nothing added to commit but untracked files present (use "git add" to track)

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(main -> origin)
λ git add *

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(main -> origin)
λ git commit -m "create all filters repo by Doaa"
[main 9d32d61] create all filters repo by Doaa
11 files changed, 1179 insertions(+)
create mode 100644 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part1.pdf
create mode 100644 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp
create mode 100644 House.bmp
create mode 100644 bmp1ib.cpp
create mode 100644 bmp1ib.h
create mode 100644 crowd.bmp
create mode 100644 elephant.bmp
create mode 100644 fruit.bmp
```

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Cmder

create mode 100644 elephant.bmp
create mode 100644 fruit.bmp
create mode 100644 mario.bmp
create mode 100644 parots.bmp
create mode 100644 photographer.bmp

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(m
in -> origin)
^ git git remote add origin git@github.com:DoaaAli11/All-Filters.git
git: 'git' is not a git command. See 'git --help'.

The most similar command is
  init

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(m
in -> origin)
^ git remote add origin git@github.com:DoaaAli11/All-Filters.git
error: remote origin already exists.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(m
in -> origin)
^ git push -u origin main
'git' is not recognized as an internal or external command,
operable program or batch file.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(m
in -> origin)
^ git push -u origin main
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 4 threads
Compressing objects: 100% (13/13), done.
Writing objects: 100% (13/13), 625.12 KiB | 69.57 MiB/s, done.
Total 13 (delta 0), reused 11 (delta 0), pack-reused 0
To https://github.com:DoaaAli11/All-Filters.git
   3add9c4..9d32d61  main -> main
branch 'main' set up to track 'origin/main'.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all-filters\All-Filters(m
in -> origin)
^
```

```
Cmder

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all_filters\All-Filters(m
in -> origin)
^ git checkout -b StanP16-main main
Switched to a new branch 'StanP16-main'

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all_filters\All-Filters(S
anP16-main)
^ git pull https://github.com:StanP16/All-Filters.git main
From https://github.com:StanP16/All-Filters
 * branch                main       -> FETCH_HEAD
Updating ab4a25e..18a593f
Fast-forward
 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp | 516 +++++
 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.exe | Bin 0 -> 3333954 bytes
 afsd.bmp | Bin 0 -> 66614 bytes
 asdfasdf.bmp | Bin 0 -> 66614 bytes
 mohaemd.bmp | Bin 0 -> 66614 bytes
5 files changed, 507 insertions(+), 9 deletions(-)
create mode 100644 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.exe
create mode 100644 afsd.bmp
create mode 100644 asdfasdf.bmp
create mode 100644 mohaemd.bmp

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all_filters\All-Filters(S
anP16-main)
^ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\all_filters\All-Filters(m
in -> origin)
^ git merge --no-ff StanP16-main
Merge made by the 'ort' strategy.
 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp | 516 +++++
 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.exe | Bin 0 -> 3333954 bytes
 afsd.bmp | Bin 0 -> 66614 bytes
 asdfasdf.bmp | Bin 0 -> 66614 bytes
 mohaemd.bmp | Bin 0 -> 66614 bytes
5 files changed, 507 insertions(+), 9 deletions(-)
create mode 100644 CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.exe
```

```
Cmder

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git merge Ahmadyasser10 origin
merge: Ahmadyasser10 - not something we can merge

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git checkout Ahmadyasser10
error: pathspec 'Ahmadyasser10' did not match any file(s) known to git

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git checkout https://github.com/Ahmadyasser10/All-Filters.git
error: pathspec 'https://github.com/Ahmadyasser10/All-Filters.git' did not match any file(s) known to git

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git pull origin main
From https://github.com/DoaaAli11/All-Filters
* branch main -> FETCH_HEAD
9d32d61..e9fb84b main -> origin/main
Auto-merging CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp
CONFLICT (content): Merge conflict in CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp
Automatic merge failed; fix conflicts and then commit the result.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git pull origin https://github.com/Ahmadyasser10/All-Filters.git
error: Pulling is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 11 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

cmd.exe
```

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Cmder

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp

no changes added to commit (use "git add" and/or "git commit -a")

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git add CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2.cpp

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git commit -m "add comments on 3,6,9,c filters"
[main f5ff0af] add comments on 3,6,9,c filters
1 file changed, 125 insertions(+), 97 deletions(-)

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.91 KiB | 650.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/DoaaAli11/All-Filters.git
8bca83b..f5ff0af main -> main
branch 'main' set up to track 'origin/main'.

E:\Academic Years\second semester\structured programming 1 (CS112)\assignment\assign 3\CS112-2022-2nd-S26-20211034-20211010-20211003-A3-Part2\All-Filters(main -> origin)
^
^
```



```
C:\Users\lenovo\Downloads\git-project
λ git clone git@github.com:Ahmedyasser10/All-Filters.git
Cloning into 'All-Filters'...
Enter passphrase for key '/c/Users/lenovo/.ssh/id_rsa':
remote: Enumerating objects: 50, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 50 (delta 20), reused 37 (delta 13), pack-reused 0
Receiving objects: 100% (50/50), 1.76 MiB | 1.85 MiB/s, done.
Resolving deltas: 100% (20/20), done.

C:\Users\lenovo\Downloads\git-project
λ git status
fatal: not a git repository (or any of the parent directories): .git

C:\Users\lenovo\Downloads\git-project
λ cd All-Filters\

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   CS112-2022-2nd-S26-20211034-20211010-20211001-A3-Part2.cpp

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git add *

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   CS112-2022-2nd-S26-20211034-20211010-20211001-A3-Part2.cpp

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git commit "Added two new filters and modified one"
error: pathspec 'Added two new filters and modified one' did not match any file(s) known to git
```



```
C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git commit "Added two new filters and modified one"
error: pathspec 'Added two new filters and modified one' did not match any file(s) known to git

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git commit -m "Added two new filters and modified one"
[master 5305c14] Added two new filters and modified one
1 file changed, 310 insertions(+), 143 deletions(-)

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ git push -u origin main
Enter passphrase for key '/c/Users/lenovo/.ssh/id_rsa':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.97 KiB | 1.97 MiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:Ahmedyasser10/All-Filters.git
 e9fb84b..5305c14 main -> main
branch 'main' set up to track 'origin/main'.

C:\Users\lenovo\Downloads\git-project\All-Filters(main -> origin)
λ
```




```
Stan@DESKTOP-RMB7A7I MINGW64 /c/GitAhmedHamed/New folder
$ git clone https://github.com/StanP16/All-Filters.git
Cloning into 'All-Filters'...
remote: Enumerating objects: 66, done.
remote: Counting objects: 100% (66/66), done.
remote: Compressing objects: 100% (45/45), done.
remote: Total 66 (delta 30), reused 48 (delta 19), pack-reused 0
Receiving objects: 100% (66/66), 1.77 MiB | 431.00 KiB/s, done.
Resolving deltas: 100% (30/30), done.
```