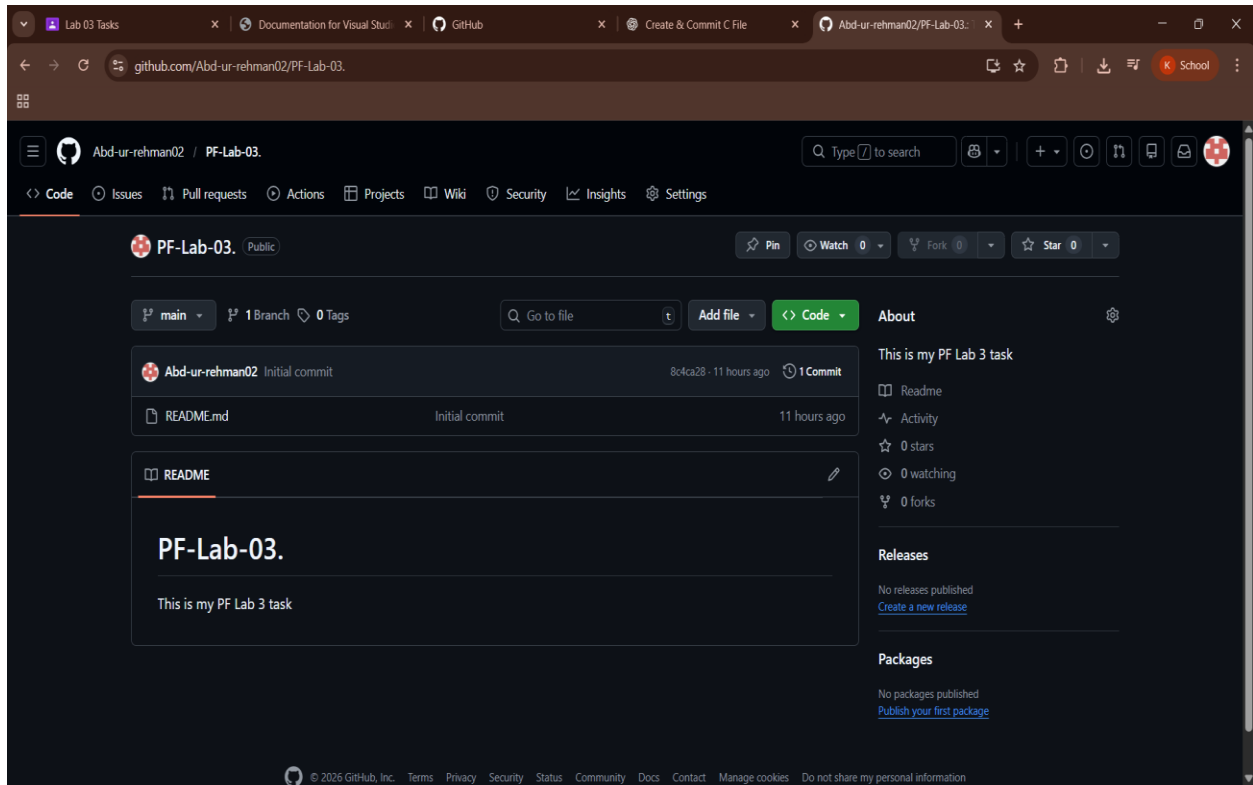
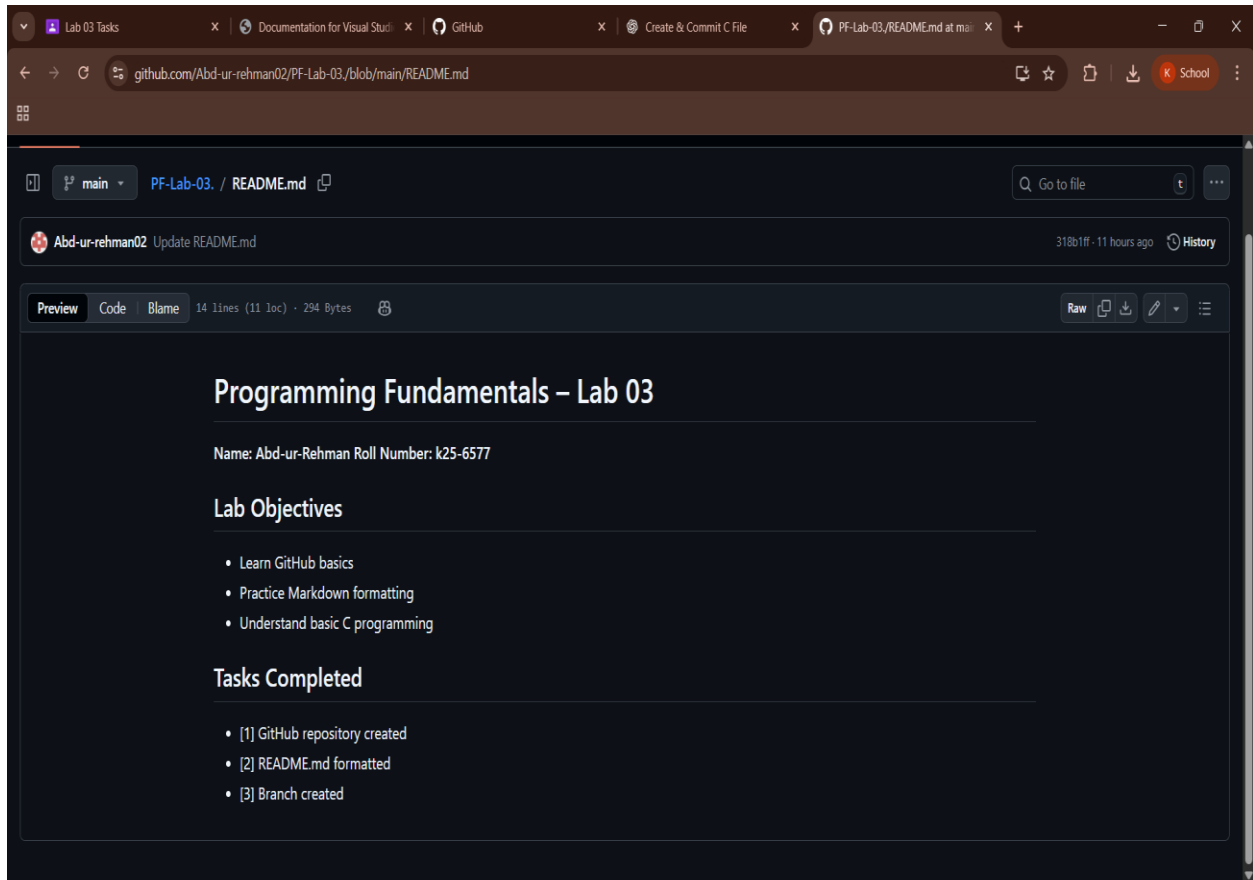


# Task 1:



# Task 2:



# Task 3:

```
MINGW64:/c/Users/Abdul Rehman/PF-Lab-03
$ AC

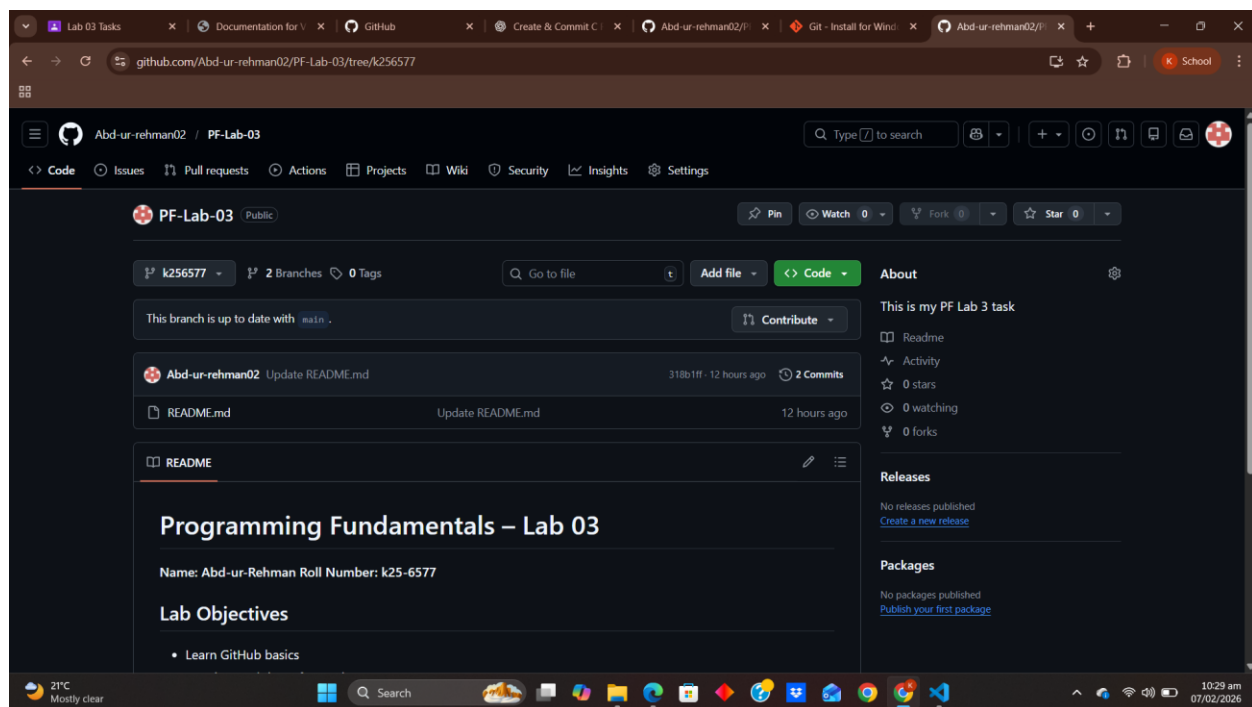
Abdul Rehman@ABDURREHMAN MINGW64 ~
$ git clone https://github.com/Abd-ur-rehman02/PF-Lab-03.git
Cloning into 'PF-Lab-03'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (6/6), done.

Abdul Rehman@ABDURREHMAN MINGW64 ~
$ cd PF-Lab-03

Abdul Rehman@ABDURREHMAN MINGW64 ~/PF-Lab-03 (main)
$ ls
README.md

Abdul Rehman@ABDURREHMAN MINGW64 ~/PF-Lab-03 (main)
$ git checkout -b k256577
Switched to a new branch 'k256577'

Abdul Rehman@ABDURREHMAN MINGW64 ~/PF-Lab-03 (k256577)
$ |
```



# Task 4:

The screenshot shows a GitHub repository page for 'PF-Lab-03' by user 'Abd-ur-rehman02'. The repository is public and has 2 branches and 0 tags. The current branch is 'k256577', which is 1 commit ahead of 'main'. The repository contains two files: 'README.md' (updated 13 hours ago) and 'intro.c' (updated 6 minutes ago). The README file is selected and displays the title 'Programming Fundamentals – Lab 03' and the text 'Name: Abd-ur-Rehman Roll Number: k25-6577'. The 'Lab Objectives' section is partially visible. The right sidebar shows the repository's activity, including 0 stars, 0 watching, and 0 forks. The 'Releases' and 'Packages' sections also show no published items.

Abd-ur-rehman02 / PF-Lab-03

Public

Pin Watch 0 Fork 0 Star 0

k256577 2 Branches 0 Tags

Go to file Add file Code

About

This branch is 1 commit ahead of main .

Abd-ur-rehman02 This is Intro.c File e8e0a2f - 6 minutes ago 3 Commits

README.md Update README.md 13 hours ago

intro.c This is Intro.c File 6 minutes ago

README

## Programming Fundamentals – Lab 03

Name: Abd-ur-Rehman Roll Number: k25-6577

### Lab Objectives

This is my PF Lab 3 task

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

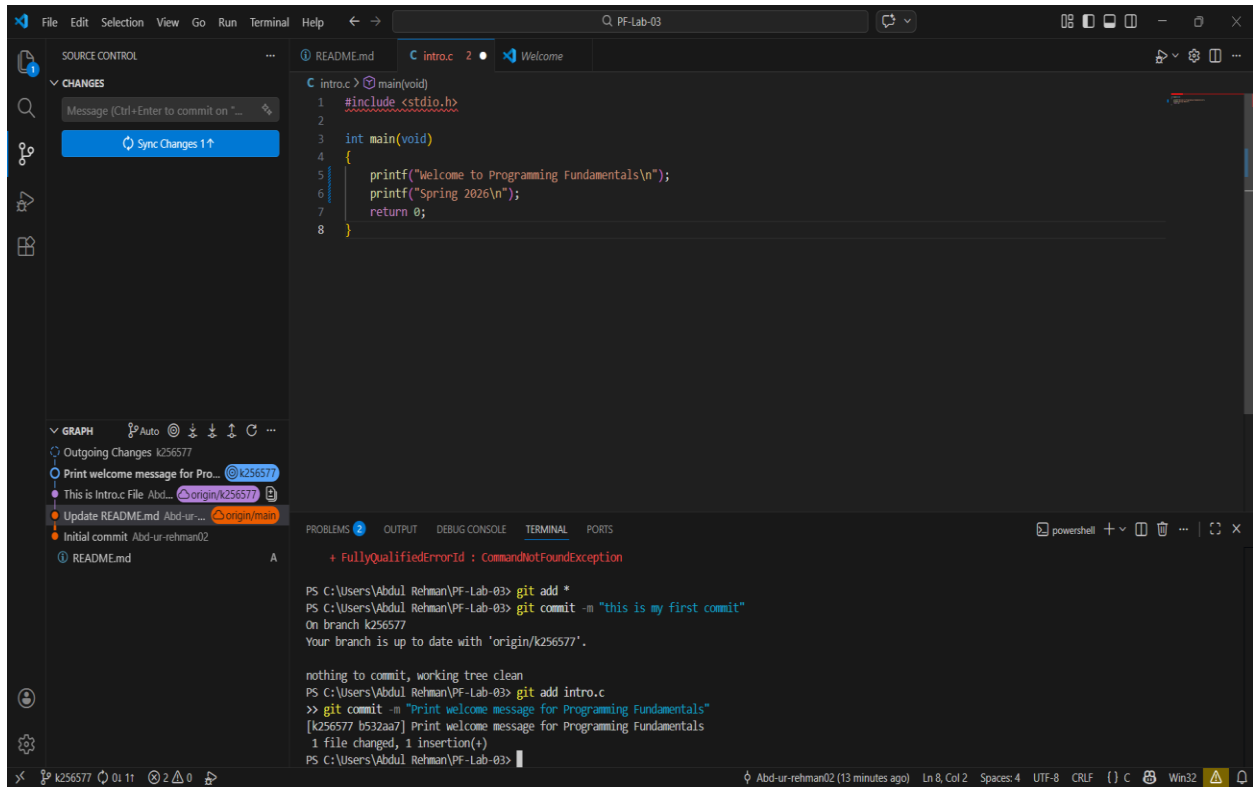
[Create a new release](#)

Packages

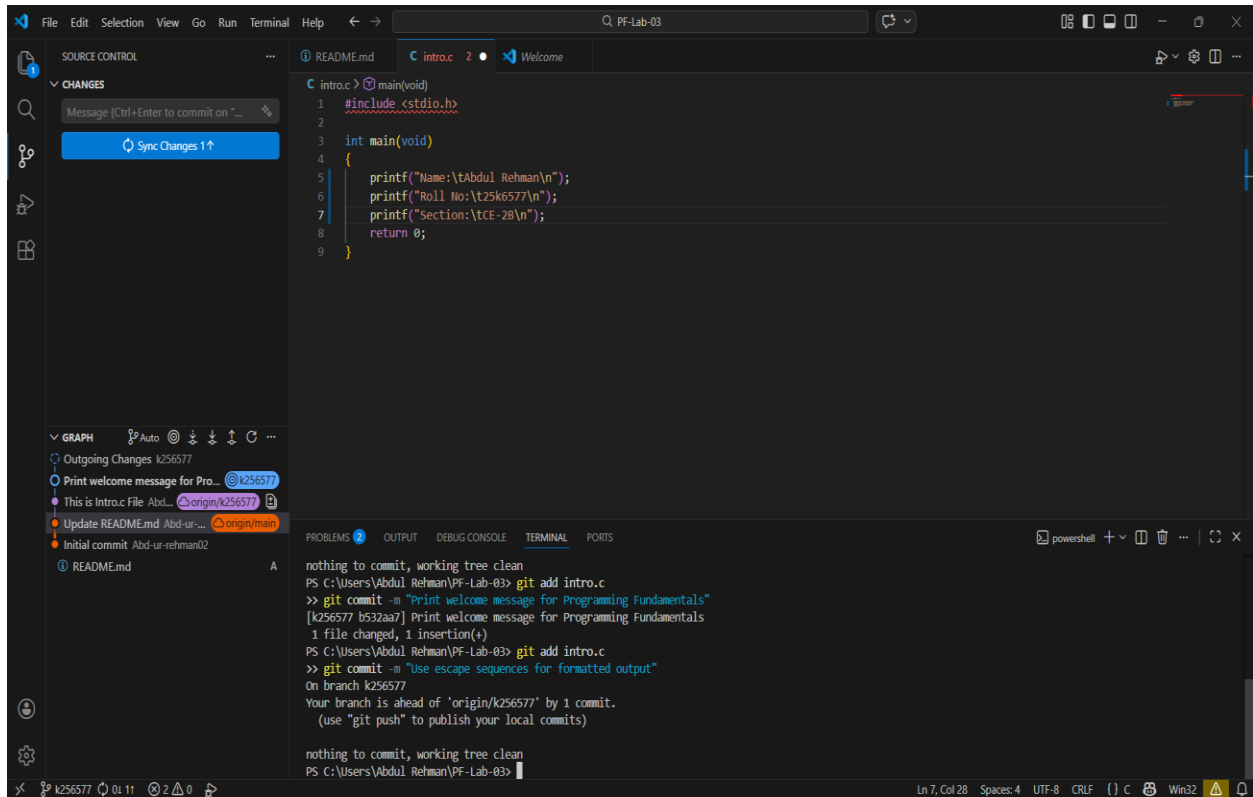
No packages published

[Publish your first package](#)

# Task 5:



# Task 6:



The screenshot shows the Visual Studio Code interface with a C program in the editor and a terminal window at the bottom. The editor displays the following code:

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     printf("Name:\tAbdul Rehman\n");
6     printf("roll No:\t25k6577\n");
7     printf("Section:\ttce-2B\n");
8     return 0;
9 }
```

The terminal window shows the following output:

```
nothing to commit, working tree clean
PS C:\Users\Abdul Rehman\PF-Lab-03> git add intro.c
>> git commit -m "Print welcome message for Programming Fundamentals"
[k256577 b532aa7] Print welcome message for Programming Fundamentals
1 file changed, 1 insertion(+)
PS C:\Users\Abdul Rehman\PF-Lab-03> git add intro.c
>> git commit -m "Use escape sequences for formatted output"
On branch k256577
Your branch is ahead of 'origin/k256577' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\Abdul Rehman\PF-Lab-03>
```

The left sidebar shows the SOURCE CONTROL view with a list of changes and a GRAPH view showing the commit history.

# Task 7:

The screenshot shows the Visual Studio Code interface with the following components:

- Editor:** Displays `intro.c` with the following code:

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     int age = 18;
6     float height = 5.6;
7     double cgpa = 3.45;
8     char grade = 'A';
9
10    printf("Age: %d\n", age);
11    printf("Height: %.1f\n", height);
12    printf("CGPA: %.2lf\n", cgpa);
13    printf("Grade: %c\n", grade);
14
15    return 0;
16 }
```
- Source Control Panel:** Shows a list of changes with a "Sync Changes 1" button.
  - Outgoing Changes k256577
    - Print welcome message for Pro... @k256577
    - This is Intro.c File Abd... @origin/k256577
    - Update README.md Abd-ur... @origin/main
    - Initial commit Abd-ur-rehman02
  - README.md
- Terminal:** Shows the execution of git commands:

```
On branch k256577
Your branch is ahead of 'origin/k256577' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\Abdul Rehman\PF-Lab-03> git add intro.c
>> git commit -m "Demonstrate variables and data types in C"
On branch k256577
Your branch is ahead of 'origin/k256577' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\Abdul Rehman\PF-Lab-03>
```

# Task 8:

The screenshot shows the Visual Studio Code interface with the following components:

- Editor:** Displays the file `intro.c` with the following C code:

```
1 char ch;  
2  
3 printf("Enter an integer: ");  
4 scanf("%d", &num);  
5  
6 printf("Enter a float: ");  
7 scanf("%f", &value);  
8  
9 printf("Enter a character: ");  
10 scanf("%c", &ch);  
11  
12 printf("\nYou entered:\n");  
13 printf("Integer: %d\n", num);  
14 printf("Float: %.2f\n", value);  
15 printf("Character: %c\n", ch);  
16  
17 return 0;  
18 }
```
- CHANGES:** Shows one change: "Sync Changes 1 ↑".
- GRAPH:** Shows the commit history:
  - Outgoing Changes k256577
  - Print welcome message for Pro... @k256577
  - This is Intro.c File Abd... @origin/k256577
  - Update README.md Abd-ur-... @origin/main
  - Initial commit Abd-ur-rehman02
- TERMINAL:** Shows the following output:

```
On branch k256577  
Your branch is ahead of 'origin/k256577' by 1 commit.  
(use "git push" to publish your local commits)  
  
nothing to commit, working tree clean  
PS C:\Users\Abdul Rehman\PF-Lab-03> git add intro.c  
>> git commit -m "Take integer, float, and character input from user"  
On branch k256577  
Your branch is ahead of 'origin/k256577' by 1 commit.  
(use "git push" to publish your local commits)  
  
nothing to commit, working tree clean  
PS C:\Users\Abdul Rehman\PF-Lab-03>
```



# Task 9:

The screenshot shows the Visual Studio Code interface with the following components:

- Editor:** Displays the file `intro.c` with the following C code:

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     double num;
6
7     printf("Enter a double value: ");
8     scanf("%lf", &num);
9
10    printf("Default: %lf\n", num);
11    printf("Two decimals: %.2lf\n", num);
12    printf("Five decimals: %.5lf\n", num);
13
14    return 0;
15 }
```
- Source Control Panel (Left):**
  - CHANGES:** Shows 1 change with a button to "Sync Changes 1↑".
  - GRAPH:** Shows a commit graph with the following commits:
    - Outgoing Changes k256577
    - Print welcome message for Pro... (k256577)
    - This is Intro.c File Abd... (origin/k256577)
    - Update README.md Abd-ur-... (origin/main)
    - Initial commit Abd-ur-rehman02
- Terminal (Bottom):** Shows the output of Git commands:

```
On branch k256577
Your branch is ahead of 'origin/k256577' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\Abdul Rehman\PF-Lab-03> git add intro.c
>> git commit -m "Show double output with different precision"
On branch k256577
Your branch is ahead of 'origin/k256577' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
PS C:\Users\Abdul Rehman\PF-Lab-03>
```

# Task 10:

