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# C Programming Assignment 1 Report

**\*\*Group 2\*\***

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## Repository Details

- **URL:** [C-programming-assignments Repository] (<https://github.com/OmoshJatelo/C-programming-assignments.git>)
  - **Name:** C-programming-assignments
  - **Description:** Collaborative C programming assignments by Group 2.
  - **Language:** C
  - **Created at:** 2024-11-02T07:18:30Z
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## Abstract

This report documents the activities and progress of Group 2 during the first C Programming assignment. The group collaborated via GitHub to develop solutions for four programming questions, aiming to enhance teamwork, technical skills, and familiarity with version control systems. The report highlights key contributions, challenges faced, and solutions implemented.

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## Introduction

The objective of this assignment was to instill essential teamwork skills and familiarize group members with collaborative coding environments. By solving four programming tasks, members were expected to enhance their problem-solving abilities while contributing to a collective repository on GitHub. This project also served as an introduction to using GitHub for version control, fostering skills necessary for global collaboration.

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## Methodology

The group leader, **\*\*Okoth Calvince Omondi\*\***, divided the four programming questions among members. Groups of three and two worked on specific modules assigned to them. The tasks were coordinated using GitHub for file sharing, version control, and collaboration. Members utilized

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GitHub features such as branches, commits, and pull requests to ensure smooth project management and integration.

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## Challenges and Solutions

### Challenges:

1. **First-time Use of GitHub:** Members struggled with branch creation, committing changes, and merging pull requests.
2. **Merge Conflicts:** Conflicts arose during branch merging due to overlapping edits.

### Solutions:

The group collaborated to resolve GitHub issues through practice and mutual assistance.

Tutorials and online resources were used to learn new skills, enabling successful integration of individual contributions.

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## Contributors

Username	Name	Contributions	Profile
OmoshJatelo	Okoth Calvince Omondi	50	<a href="https://github.com/OmoshJatelo">https://github.com/OmoshJatelo</a>
ElpisM	Elpis Mwangi	7	<a href="https://github.com/ElpisM">https://github.com/ElpisM</a>
SasakaRoben	Sasaka Roben	5	<a href="https://github.com/SasakaRoben">https://github.com/SasakaRoben</a>
SheilaSusan	Sheila Susan	5	<a href="https://github.com/SheilaSusan">https://github.com/SheilaSusan</a>
Seline254	Seline Owino	3	<a href="https://github.com/Seline254">https://github.com/Seline254</a>
ianmugi048	Ian Mugi	2	<a href="https://github.com/ianmugi048">https://github.com/ianmugi048</a>
digeshiotero	Paul Adongo	2	<a href="https://github.com/digeshiotero">https://github.com/digeshiotero</a>
Lagat27	Stephen Lagat	2	<a href="https://github.com/Lagat27">https://github.com/Lagat27</a>
Kenneth-1-bit	Kenneth Mwehu	1	<a href="https://github.com/Kenneth-1-bit">https://github.com/Kenneth-1-bit</a>
Royaltie-byte	Alan Kirui	1	<a href="https://github.com/Royaltie-byte">https://github.com/Royaltie-byte</a>
Shayanony	Sharon Wambui	1	<a href="https://github.com/Shayanony">https://github.com/Shayanony</a>

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## Commits

Commit Message: Update question3-solution. (made some during program correctness testing)

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-25T06:07:36Z

=====

Commit Message: Update main.c. verified the program correctness

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-25T05:38:14Z

=====

Commit Message: Update question3-solution.c

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-24T12:44:13Z

=====

Commit Message: Merge pull request #18 from ElpisM/main

question3 code upto do while section

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-24T08:55:20Z

=====

Commit Message: Update question3-solution.c (erased the content)

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-24T08:53:33Z

=====

Commit Message: removed two last curly brackets

Author: ElpisM (elpis8076@gmail.com)

Date: 2024-11-24T08:37:26Z

=====

Commit Message: Merge branch 'main' of <https://github.com/ElpisM/C-programing-assignments>

Author: ElpisM (elpis8076@gmail.com)

Date: 2024-11-24T08:24:39Z

=====

Commit Message: question 3 upto the do while section

Author: ElpisM (elpis8076@gmail.com)

Date: 2024-11-24T08:24:28Z

=====

Commit Message: Merge pull request #16 from Lagat27/question-2-solution

solution for question 2 by lagat

Author: Lagat27 (lagatstephen27@gmail.com)

Date: 2024-11-23T19:29:20Z

=====

Commit Message: question-2

final solution for question 2

Author: Thygenius (lagatstephen27@gmail.com)

Date: 2024-11-23T19:22:18Z

=====

Commit Message: Merge branch 'OmoshJatelo:main' into main

Author: ElpisM (elpis8076@gmail.com)

Date: 2024-11-23T17:26:35Z

=====

Commit Message: this is the do while loop for question 3

Author: ElpisM (elpis8076@gmail.com)

Date: 2024-11-23T17:22:07Z

=====

Commit Message: Merge pull request #15 from SasakaRoben/newquestion2

Question2 by Roben

Author: Okoth Calvince Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-23T14:57:42Z

=====

Commit Message: Question2 by Roben

Updated question2

Author: SasakaRoben (sasakarobenld@gmail.com)

Date: 2024-11-23T13:33:24Z

=====

Commit Message: deleted all the vacuous and empty files

Author: OmoshJatelo (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:59:30Z

=====

Commit Message: Merge pull request #11 from SasakaRoben/Question2

Question2 by Roben

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:39:29Z

=====

Commit Message: Update question2ByRoben.cbp to remove the contents of the unwanted files

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:39:01Z

=====

Commit Message: Update grading.cbp to exclude the contents of the wrong file that accompanied the correct one

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:37:22Z

=====

Commit Message: Merge pull request #9 from Seline254/section-1

Variable declaration for question 2 -Seline

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:29:04Z

=====

Commit Message: excluded the contents of another wrong file that accompanied this commit

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:13:26Z

=====

Commit Message: excluded the wrong file that accompanied this commit

Author: Okoth Calvin Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T16:11:42Z

=====

Commit Message: Merge pull request #13 from OmoshJatelo/question4finalization

second commit qn 4.

Author: Okoth Calvince Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-15T14:16:59Z

=====

Commit Message: second commit qn 4.

Added the block of code for the condition; if dependants number is greater or equal to 3.

Author: Kenneth (jatanil@duck.com)

Date: 2024-11-13T12:01:13Z

=====

Commit Message: Update question3-solution.c

Author: digeshiotero (otanaadongo@gmail.com)

Date: 2024-11-10T21:17:36Z

=====

Commit Message: Updated question3-solution.c

Author: digeshiotero (otanaadongo@gmail.com)

Date: 2024-11-10T21:13:07Z

=====

Commit Message: Question2 by Roben

Added the do

Author: SasakaRoben (sasakarobenld@gmail.com)

Date: 2024-11-10T19:25:27Z



=====

Commit Message: Initialized Variables for question 2

Author: SelineOwino (selineowino36@gmail.com)

Date: 2024-11-10T10:34:43Z

=====

Commit Message: Added the ultimate solution for question 1

Author: OmoshJatelo (calvinceomondi913@gmail.com)

Date: 2024-11-08T19:44:32Z

=====

Commit Message: deleted this wrong file

Author: OmoshJatelo (calvinceomondi913@gmail.com)

Date: 2024-11-08T19:15:11Z

=====

Commit Message: Merge pull request #10 from SheilaSusan/question1-solution

Updated scoring conditions

Author: Okoth Calvince Omondi (calvinceomondi913@gmail.com)

Date: 2024-11-08T18:24:57Z

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## Branches

### Active Branches:

- **main:** Default branch for stable code.
- **Question3:** Focused on developing and testing solutions for question 3.
- **assignment4nb:** Dedicated to solving assignment 4.
- **master:** Legacy branch.
- **question4finalization:** Final implementation of question 4.

## Conclusion

This assignment successfully introduced group members to collaborative coding using GitHub. Despite initial challenges, the group demonstrated teamwork and adaptability, ultimately delivering a complete solution for all assigned tasks. Members gained valuable skills in version control and coding collaboration, laying the foundation for future projects.