



PROJECT NAME:AGE SURVEY ANALYZER

SUBMITTED BY:

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1ST SEMESTER

BTECH CSE (AI/ML)

SECTION: B

IBM

GUIDENCE/SUBMITTED TO:

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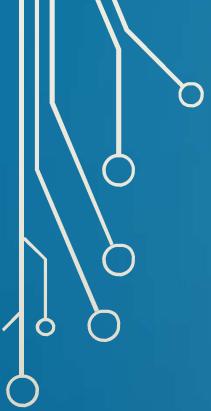
IBM SME

SESSION:2025-26



AGENDA

-  To design a C program that's collects age data from multiple users.
 -  To categorize users into different age using conditional statements.
 -  To apply loop control for repetitive data input.
 -  To count and display the number of users in each age category.
 -  To demonstrate the practical use of variables, loops, and if–else conditions in C.
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OBJECTIVE

1.  To understand the basic structure of a C program.
 2.  To collect age data from multiple users.
 3.  To analyze and classify users into age groups.
 4.  To apply loops for repetitive data input.
 5.  To implement conditional (if–else) statements.
 6.  To generate and display summarized survey results.
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INTRODUCTION TO PROJECT



AGE SURVEY ANALYZER USING C PROGRAM

-  Overview
- This project is a simple console-based C application designed to collect age data from multiple users and analyze it by grouping users into different age categories such as Children, Teens, Adults, and Seniors.
-  Purpose
- The project helps in understanding the practical implementation of loops, conditional statements (if–else), and counter variables in the C programming language.
-  Working Principle
- The program takes user input using a loop, checks each age using conditions, and finally displays a summarized report of the survey.
-  Application
- Such age-based analysis can be used in surveys, population studies, educational research, and basic data analysis systems.



TOOLS & TECHNOLOGIES USED

Visual Studio Code (VS Code)

Used as the source code editor for writing and managing the C program.

Provides syntax highlighting and an easy-to-use interface.

GCC Compiler

Used to compile and execute the C program.

Converts C source code into executable machine code.

C Programming Language

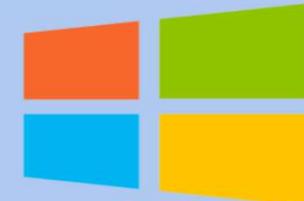
Used to implement program logic using loops, conditions, and variables.

Windows Operating System

Provides the environment to run VS Code and GCC compiler.



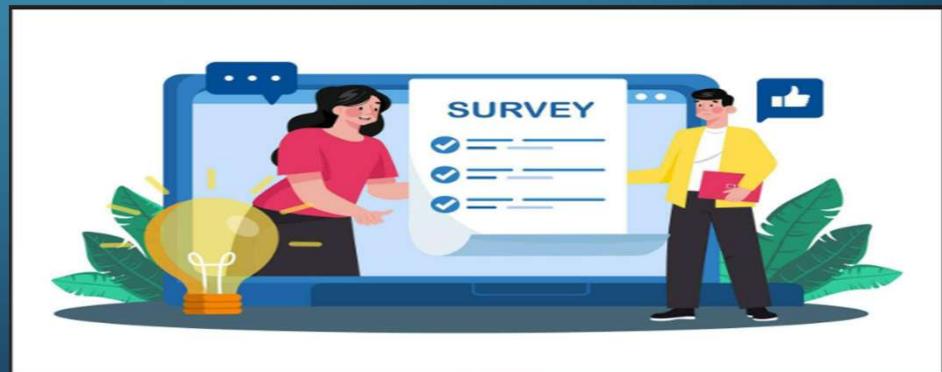
Visual Studio Code



Windows Operating System

PROJECT WORKING

- **1**  User Input
 - The program first asks for the number of users and then takes age input for each user.
- **2**  Loop Execution
 - A for loop runs repeatedly to collect age data from all users one by one.
- **3**  Condition Checking
 - Each entered age is checked using if–else conditions to determine the age group.
- **4**  Classification
 - Users are categorized into:
 - Children (0–12)
 - Teens (13–19)
 - Adults (20–59)
 - Seniors (60+)
- **5**  Result Display
 - After processing all inputs, the program displays the final count of each age group.





SCREENSHOT (SURVEY ANALYZER CODE)

A screenshot of a code editor window titled "project.c". The window shows the following C code:

```
Run Terminal Help ← → project c language
C project.c ×
C project.c > ...
1 #include <stdio.h>
2
3 int main() {
4     int users, age;
5     int child = 0, teen = 0, adult = 0, senior = 0;
6
7     printf("Enter number of users: ");
8     scanf("%d", &users);
9
10    for (int i = 1; i <= users; i++) {
11        printf("Enter age of user %d: ", i);
12        scanf("%d", &age);
13
14        if (age >= 0 && age <= 12) {
15            child++;
16        } else if (age >= 13 && age <= 19) {
17            teen++;
18        } else if (age >= 20 && age <= 59) {
19            adult++;
20        } else if (age >= 60) {
21            senior++;
22        } else {
23            printf("Invalid age entered.\n");
24        }
25    }
26
27    printf("\n--- Survey Results ---\n");
28    printf("Children (0-12): %d\n", child);
29    printf("Teens (13-19): %d\n", teen);
30    printf("Adults (20-59): %d\n", adult);
31    printf("Seniors (60+): %d\n", senior);
32
33    return 0;
34 }
```

OUTPUT

```
NSOLE TERMINAL ... | ⌂ X
▼ TERMINAL
PS C:\Users\mahor\OneDrive\Music\Documents\Desktop\project c language> cd "c:\Users\mahor\OneDrive\Music\Documents\Desktop\project c language\" ; if ($?) { gcc project.c -o project } ; if (?) { .\project }
Enter number of users: 10
Enter age of user 1: 2
Enter age of user 2: 34
Enter age of user 3: 33
Enter age of user 4: 22
Enter age of user 5: 56
Enter age of user 6: 78
Enter age of user 7: 65
Enter age of user 8: 22
Enter age of user 9: 66
Enter age of user 10: 82

--- Survey Results ---
Children (0-12): 1
Teens (13-19): 0
Adults (20-59): 5
Seniors (60+): 4
PS C:\Users\mahor\OneDrive\Music\Documents\Desktop\project c language>
```



ADVANTAGES OF AGE SURVEY ANALYZER

- **1** Easy to Use
 The program is simple and easy to operate for users of any level.
- **2** Fast Data Processing
 Automatically collects and classifies data quickly using loops and conditions.
- **3** Accurate Results
 Ensures correct counting of each age group using logical conditions.
- **4** Reusable
 The program can be reused for any number of users.
- **5** Helps in Data Analysis
 Useful for surveys, population studies, and age-based research.





FUTURE SCOPE OF AGE SURVEY ANALYZER

- **1** Graphical User Interface (GUI)
💻 The program can be upgraded to have a GUI using tools like Java Swing for better user interaction.
- **2** Save & Export Data
📁 Ability to store survey data in files (CSV, Excel) for later analysis.
- **3** Advanced Data Analysis
📊 Integrate with charts and graphs to visually represent age statistics.
- **4** Web-Based Version
🌐 Can be developed as a web application for online surveys.
- **5** Integration with Databases
🗄️ Use SQL/NoSQL databases to handle large-scale survey data.

Thank

You