



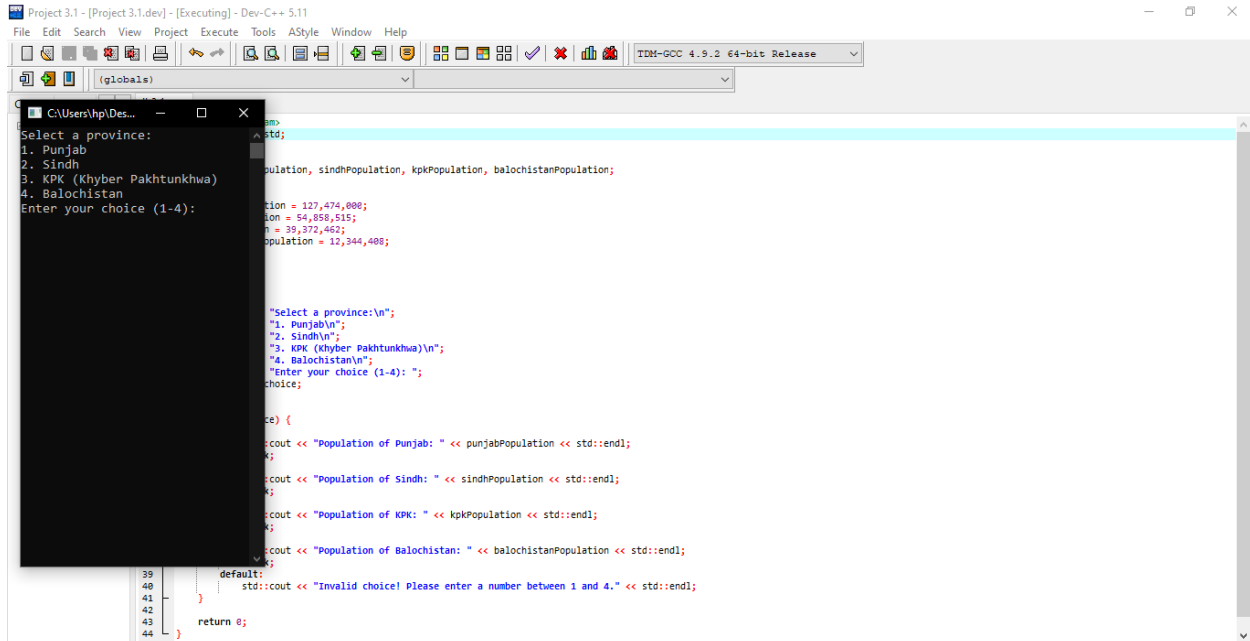
**Fundamental of Programming
Lab Manual # 03**

Student Name: Talha Rafique
471701



HOME TASK

Question:1 Write a C++ program to print the total number of populations in Punjab, Sindh, KPK, and Balochistan using a switch case.



The screenshot shows a C++ program in Dev-C++ with a switch case that prints population data for four provinces: Punjab, Sindh, KPK, and Balochistan. The program includes a menu for selection and a default case for invalid input.

```
Project 3.1 - [Project 3.1.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
C:\Users\hp\Des...
Select a province:
1. Punjab
2. Sindh
3. KPK (Khyber Pakhtunkhwa)
4. Balochistan
Enter your choice (1-4):

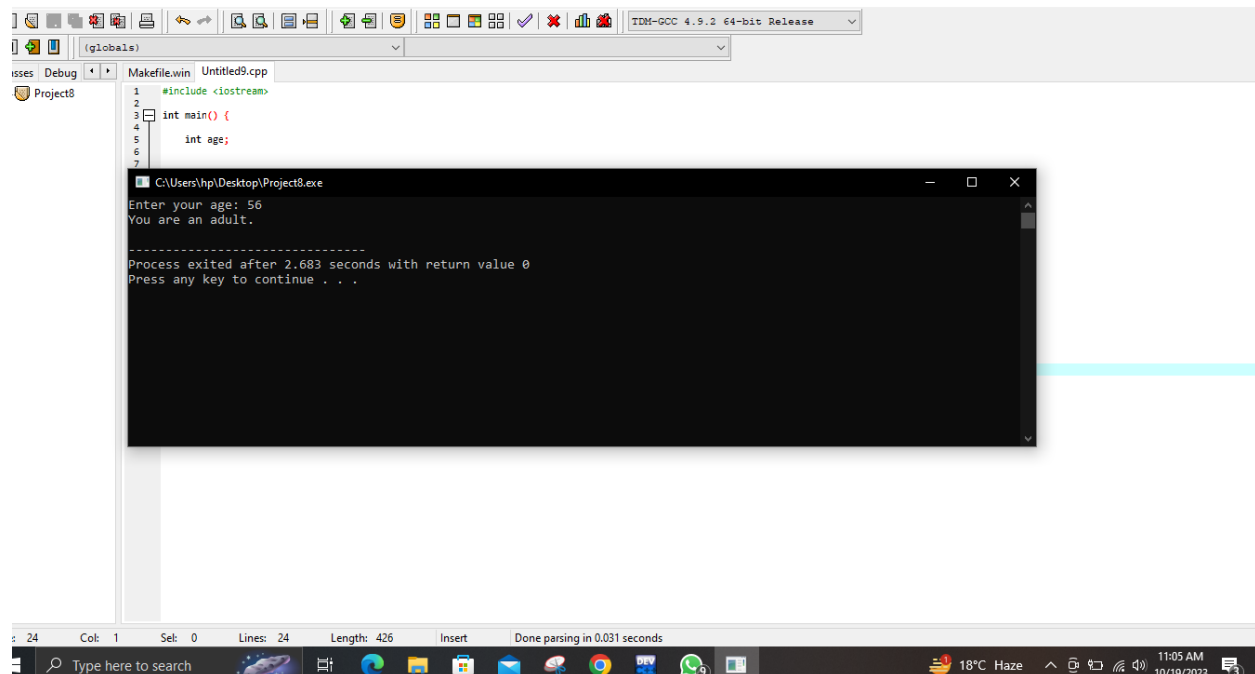
Population, sindhPopulation, kpkPopulation, balochistanPopulation;
tion = 127,474,000;
lon = 54,858,515;
= 35,372,462;
population = 12,344,408;

"Select a province:\n";
"1. Punjab\n";
"2. Sindh\n";
"3. KPK (Khyber Pakhtunkhwa)\n";
"4. Balochistan\n";
"Enter your choice (1-4): ";
choice;

ce) {
cout << "Population of Punjab: " << punjabPopulation << std::endl;
};
cout << "Population of Sindh: " << sindhPopulation << std::endl;
};
cout << "Population of KPK: " << kpkPopulation << std::endl;
};
cout << "Population of Balochistan: " << balochistanPopulation << std::endl;
};
default:
std::cout << "Invalid choice! Please enter a number between 1 and 4." << std::endl;
return 0;
}
```

Question:2 . Write a C++ program to check whether an alphabet is a vowel or consonant using a switch case.

Question:4 Write a C++ to find out whether a person is an adult, teenager, or child.



The screenshot shows a C++ IDE with a project named "Project8". The code in "Untitled9.cpp" is as follows:

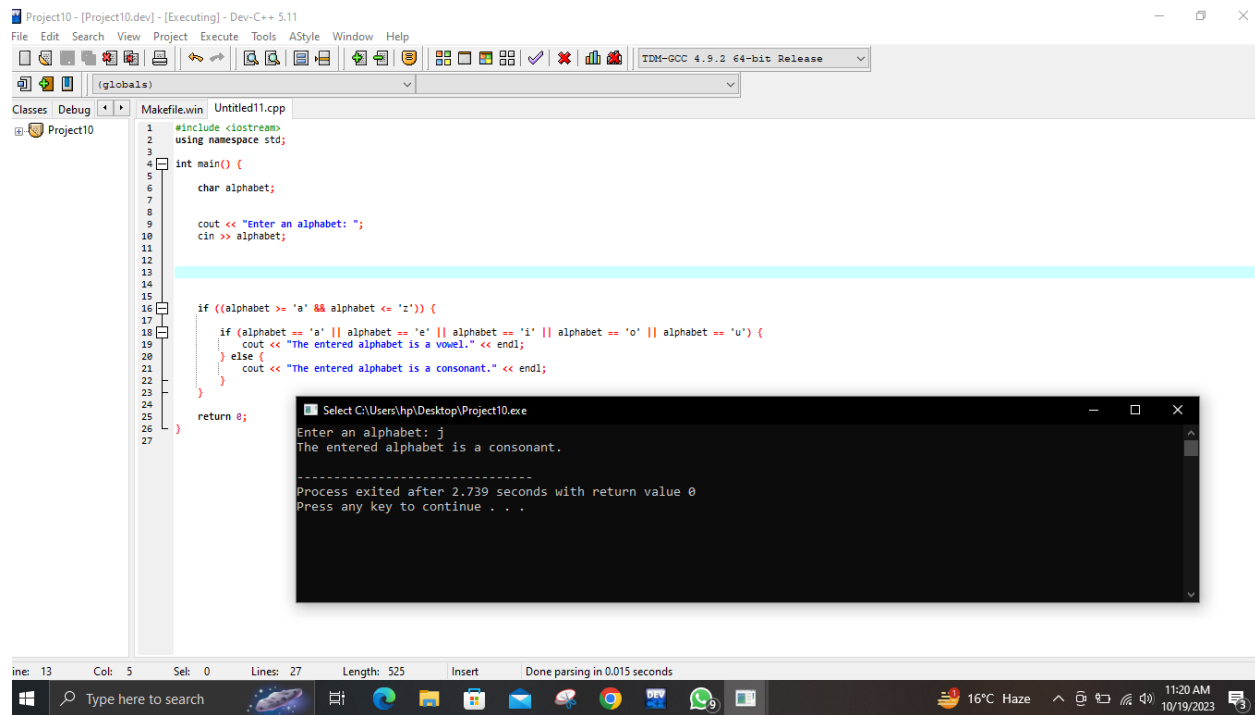
```
1 #include <iostream>
2
3 int main() {
4     int age;
5
6     // ... (code for input and logic is missing in the snippet)
7 }
```

The output window shows the execution results:

```
Enter your age: 56
You are an adult.

-----
Process exited after 2.683 seconds with return value 0
Press any key to continue . . .
```

Question:5 6. Write a C++ program to check whether the alphabet entered by the user is Vowel or Consonant .



The screenshot shows a C++ IDE with a project named "Project10". The code in "Untitled11.cpp" is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     char alphabet;
6
7     // ... (code for input and logic is missing in the snippet)
8
9     cout << "Enter an alphabet: ";
10    cin >> alphabet;
11
12    // ... (code for logic is missing in the snippet)
13
14    if ((alphabet >= 'a' && alphabet <= 'z')) {
15        if (alphabet == 'a' || alphabet == 'e' || alphabet == 'i' || alphabet == 'o' || alphabet == 'u') {
16            cout << "The entered alphabet is a vowel." << endl;
17        } else {
18            cout << "The entered alphabet is a consonant." << endl;
19        }
20    }
21
22    return 0;
23 }
```

The output window shows the execution results:

```
Enter an alphabet: j
The entered alphabet is a consonant.

-----
Process exited after 2.739 seconds with return value 0
Press any key to continue . . .
```

