Fundamentals of Programming

Lab Report 2

1st SEMESTER

Session: ME-15 **Section: C**

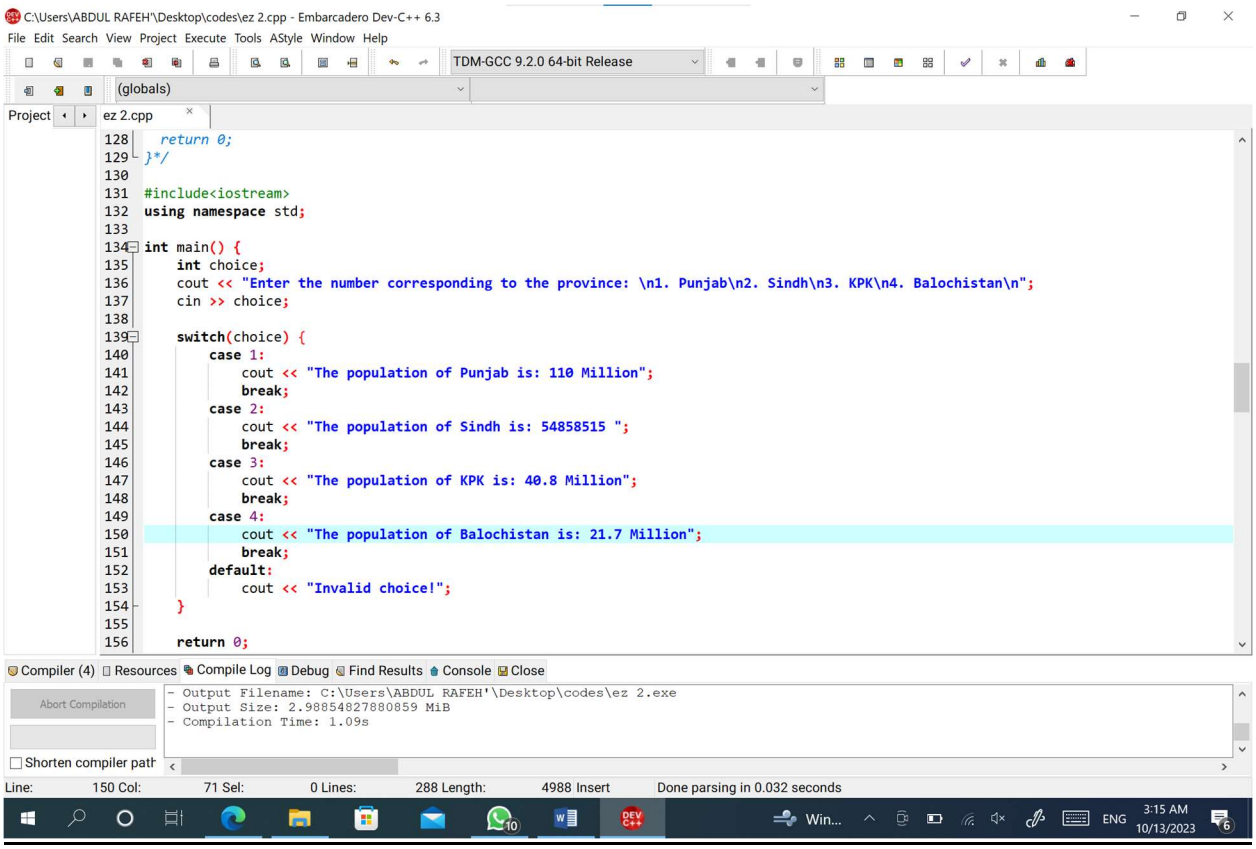
ABDUL RAFEH

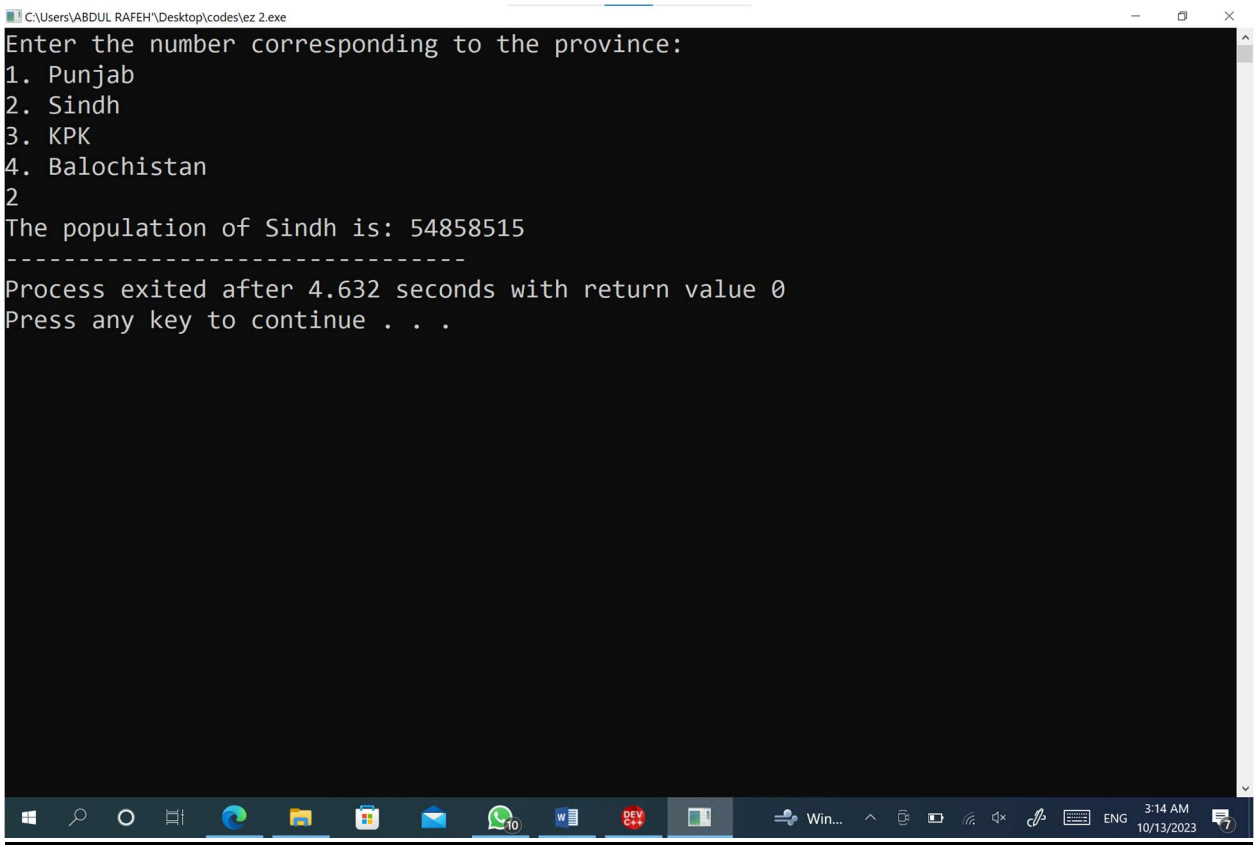
417648

School of Mechanical and Manufacturing Engineering

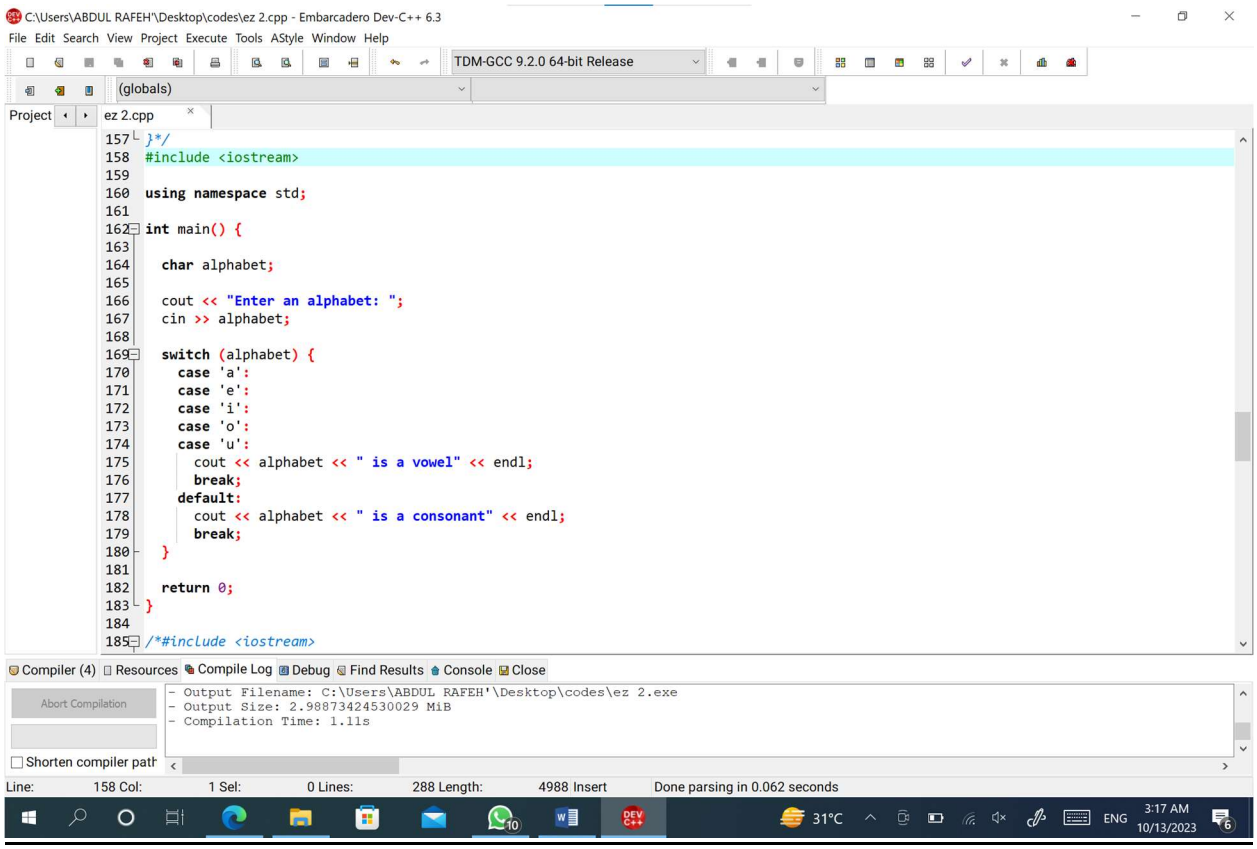
LAB MANUAL 3

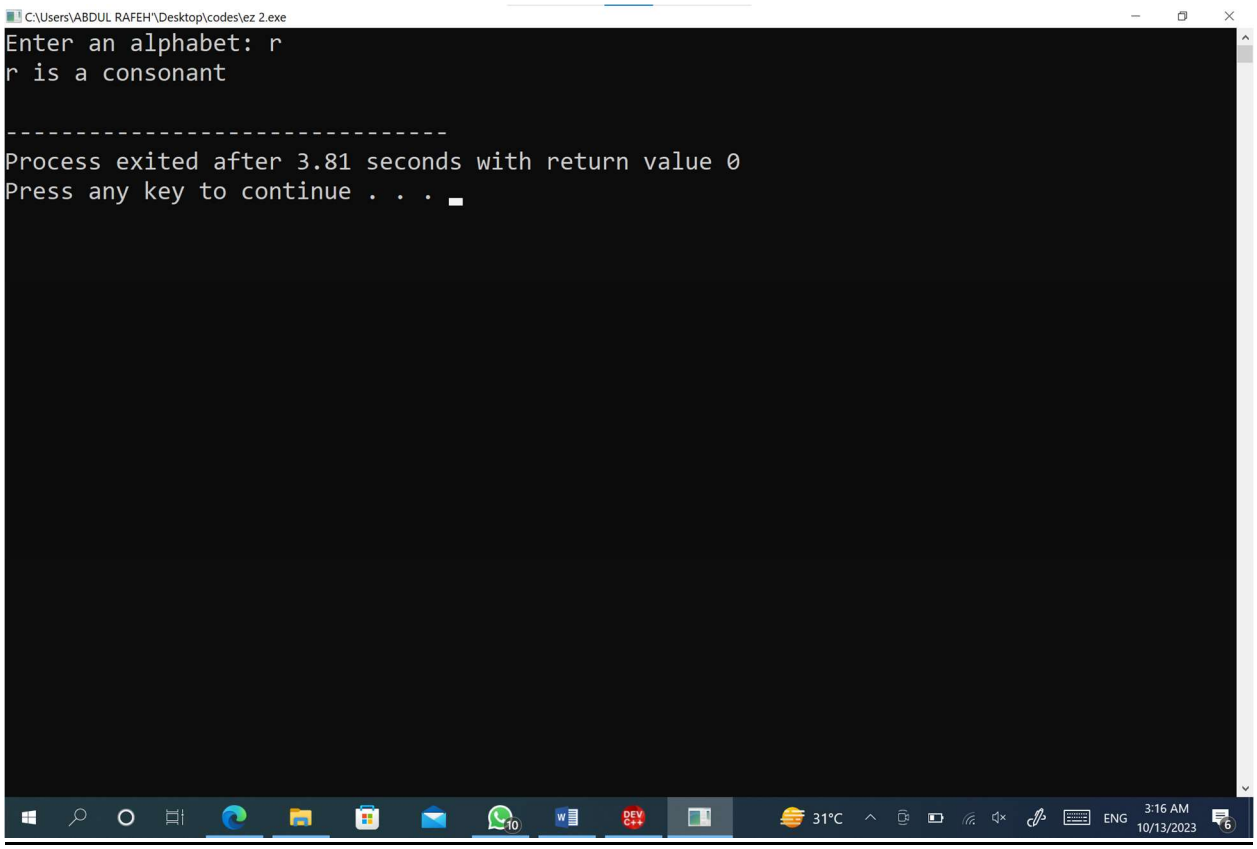
1. **Write a C++ program to print the total number of populations in Punjab, Sindh, KPK, and Balochistan using a switch case.**





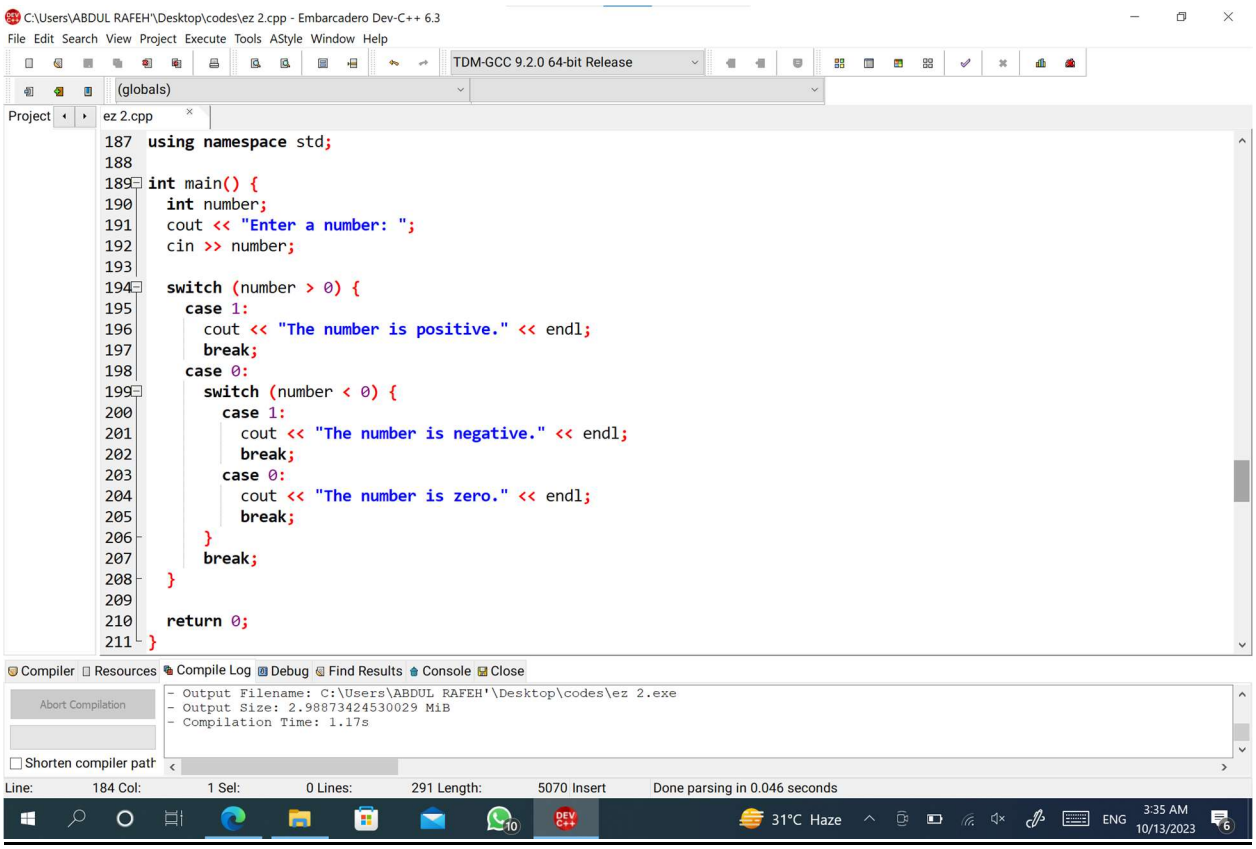
2. **Write a C++ program to check whether an alphabet is a vowel or consonant using a switch case.**

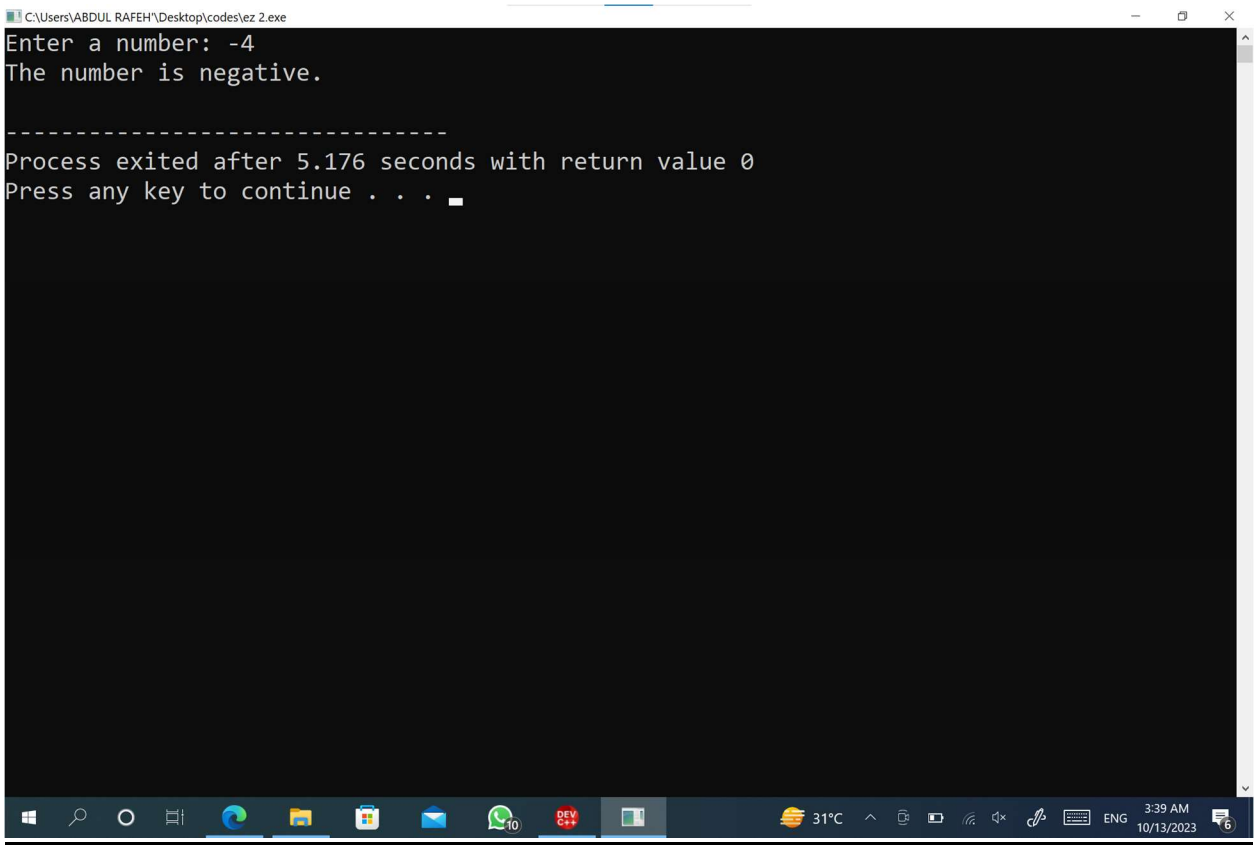

C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.cpp - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Release
(globals)
Project
ez 2.cpp
}*/
#include <iostream>
using namespace std;
int main() {
char alphabet;
cout << "Enter an alphabet: ";
cin >> alphabet;
switch (alphabet) {
case 'a':
case 'e':
case 'i':
case 'o':
case 'u':
cout << alphabet << " is a vowel" << endl;
break;
default:
cout << alphabet << " is a consonant" << endl;
break;
}
return 0;
}
/*#include <iostream>
Compiler (4)
Resources
Compile Log
Debug
Find Results
Console
Close
Abort Compilation
Shorten compiler path
- Output Filename: C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.exe
- Output Size: 2.98873424530029 MiB
- Compilation Time: 1.11s
Line: 158 Col: 1 Sel: 0 Lines: 288 Length: 4988 Insert
Done parsing in 0.062 seconds
31°C
ENG
3:17 AM
10/13/2023


C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.exe
Enter an alphabet: r
r is a consonant

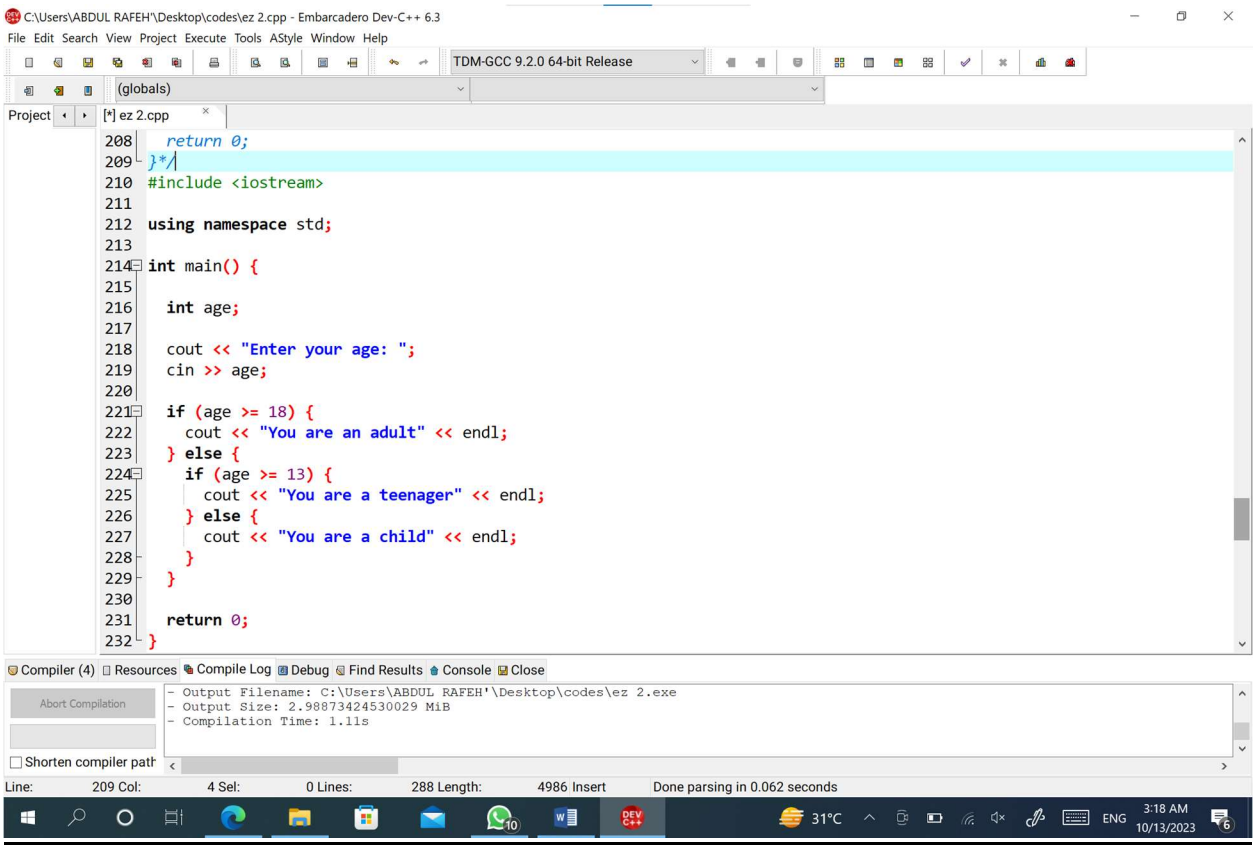
Process exited after 3.81 seconds with return value 0
Press any key to continue . . .
31°C
ENG
3:16 AM
10/13/2023

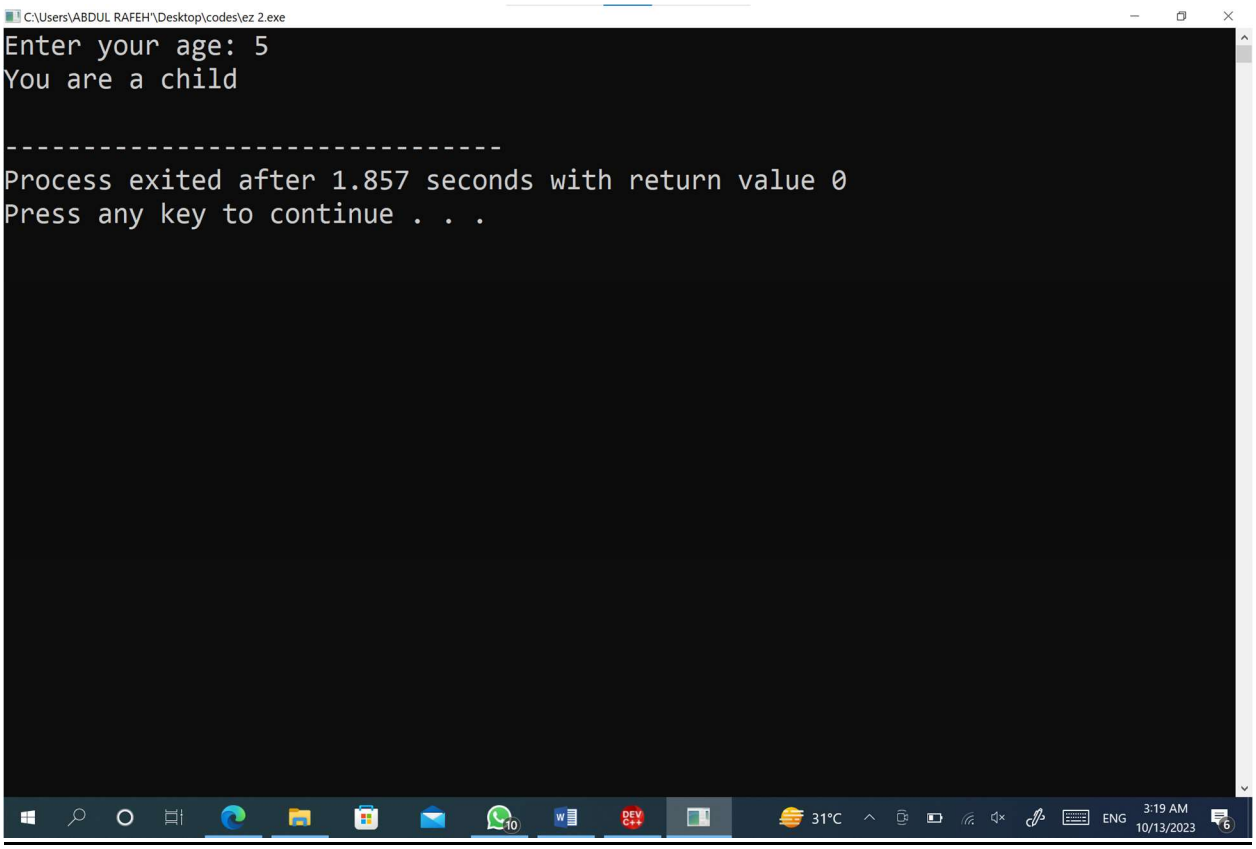
3. **Write a C++ program to check whether a number is positive, negative, or zero using a switch case**





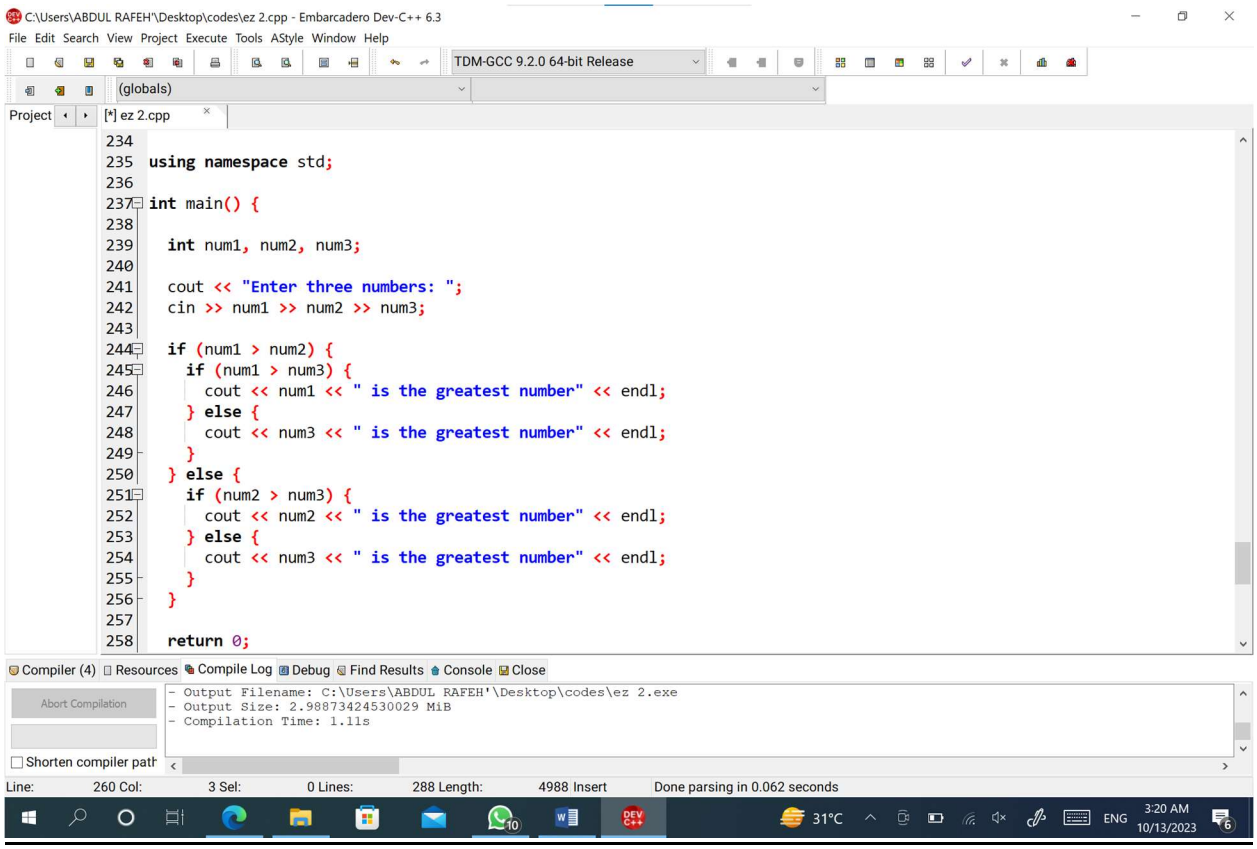
4. **Write a C++ to find out whether a person is an adult, teenager, or child using nested if-else**

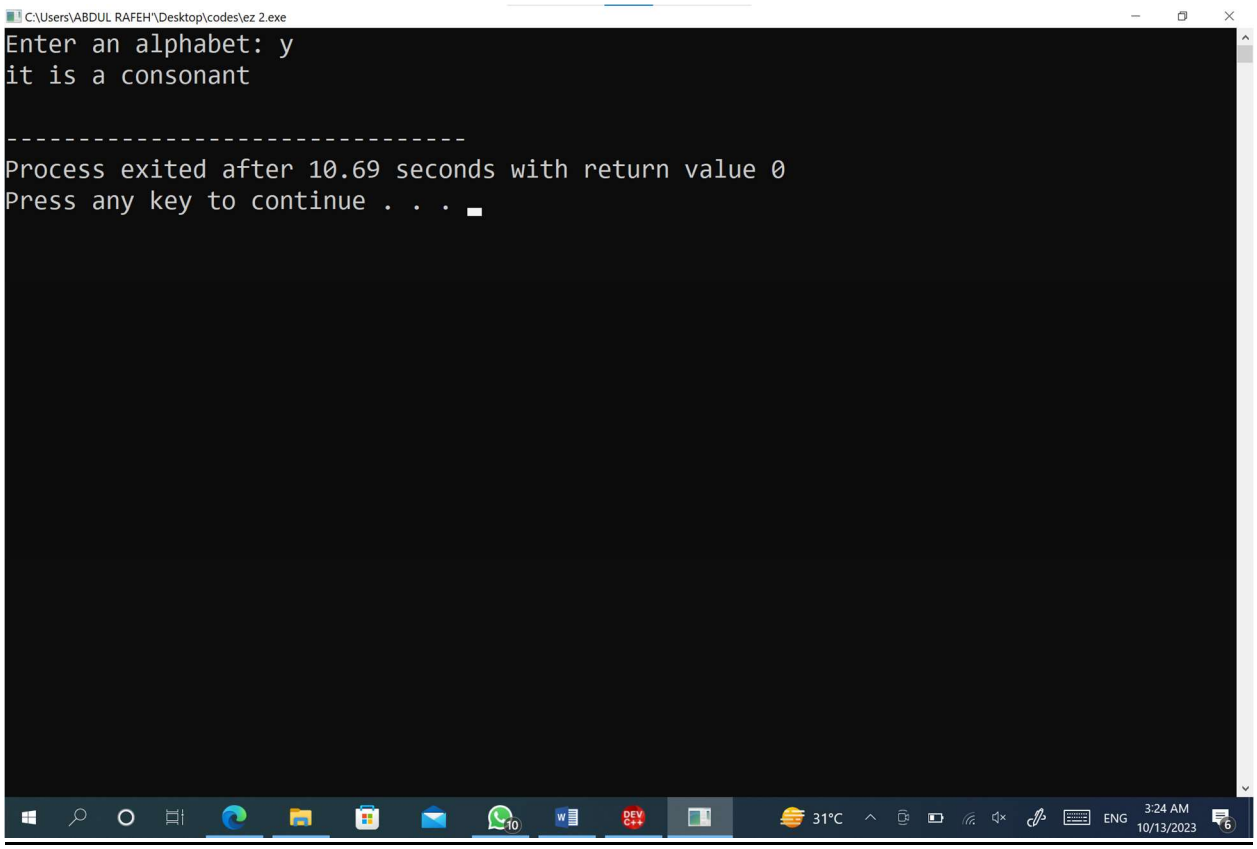

C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.cpp - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Release
(globals)
Project
[*] ez 2.cpp
208 return 0;
209 }*/
210 #include <iostream>
211
212 using namespace std;
213
214 int main() {
215
216 int age;
217
218 cout << "Enter your age: ";
219 cin >> age;
220
221 if (age >= 18) {
222 cout << "You are an adult" << endl;
223 } else {
224 if (age >= 13) {
225 cout << "You are a teenager" << endl;
226 } else {
227 cout << "You are a child" << endl;
228 }
229 }
230
231 return 0;
232 }
Compiler (4) Resources Compile Log Debug Find Results Console Close
Abort Compilation
- Output Filename: C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.exe
- Output Size: 2.98873424530029 MiB
- Compilation Time: 1.11s
Shorten compiler path
Line: 209 Col: 4 Sel: 0 Lines: 288 Length: 4986 Insert Done parsing in 0.062 seconds
31°C
ENG
3:18 AM
10/13/2023


C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.exe
Enter your age: 5
You are a child

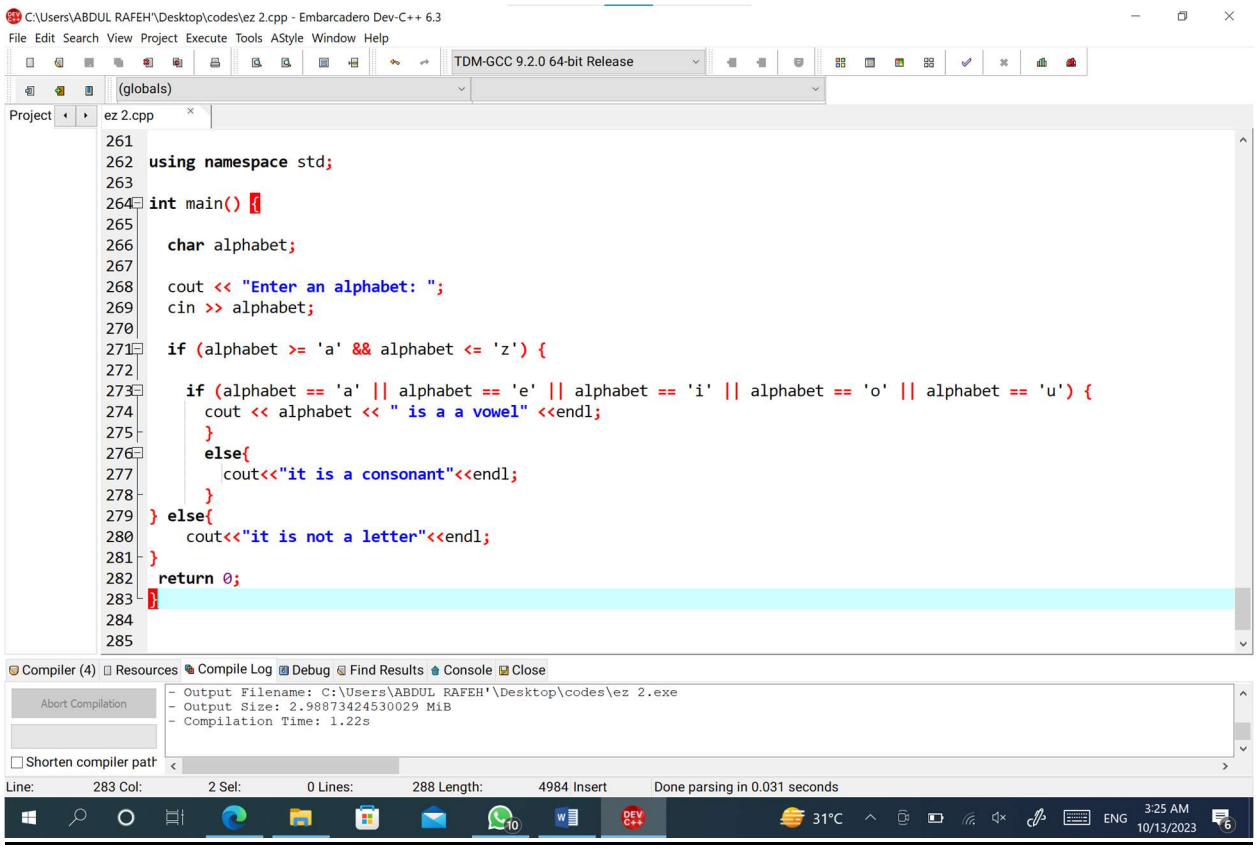
Process exited after 1.857 seconds with return value 0
Press any key to continue . . .
31°C
ENG
3:19 AM
10/13/2023

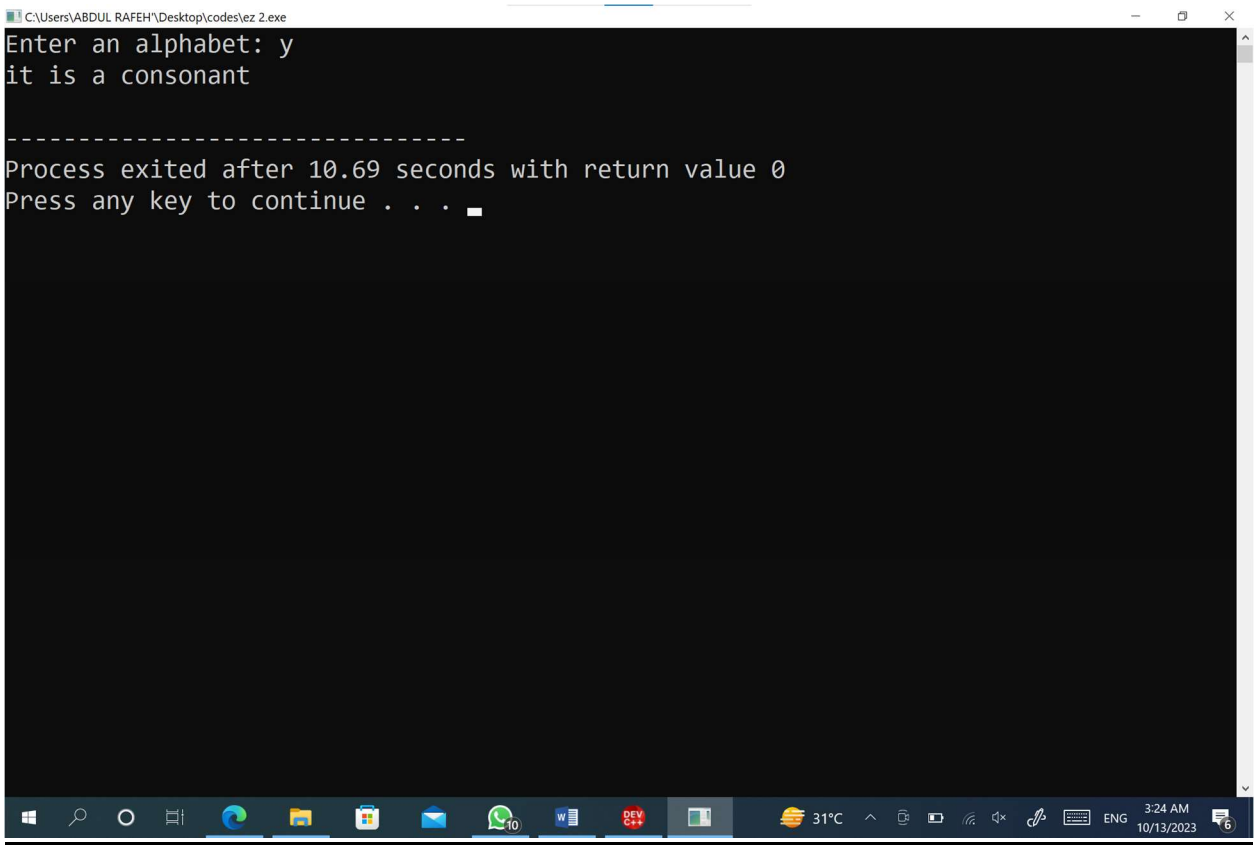
5. **Write a C++ program that takes three number from the user and find the greatest number out of the three numbers using nested if-else statements**





6. **Write a C++ program to check whether the alphabet entered by the user is Vowel or Consonant using nested if-else**


C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.cpp - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 9.2.0 64-bit Release
(globals)
Project
ez 2.cpp
261
262 using namespace std;
263
264 int main() {
265
266 char alphabet;
267
268 cout << "Enter an alphabet: ";
269 cin >> alphabet;
270
271 if (alphabet >= 'a' && alphabet <= 'z') {
272
273 if (alphabet == 'a' || alphabet == 'e' || alphabet == 'i' || alphabet == 'o' || alphabet == 'u') {
274 cout << alphabet << " is a a vowel" <<endl;
275 }
276 else{
277 cout<<"it is a consonant"<<endl;
278 }
279 } else{
280 cout<<"it is not a letter"<<endl;
281 }
282 return 0;
283 }
284
285
Compiler (4) Resources Compile Log Debug Find Results Console Close
Abort Compilation
Shorten compiler path
- Output Filename: C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.exe
- Output Size: 2.98873424530029 MiB
- Compilation Time: 1.22s
Line: 283 Col: 2 Sel: 0 Lines: 288 Length: 4984 Insert
Done parsing in 0.031 seconds
31°C
ENG
3:25 AM
10/13/2023


C:\Users\ABDUL RAFEH'\Desktop\codes\ez 2.exe
Enter an alphabet: y
it is a consonant

Process exited after 10.69 seconds with return value 0
Press any key to continue . . .
31°C
ENG
3:24 AM
10/13/2023