

**CS-114 - Fundamental of Programing**

**Lab Manual # 3**

**Home Task**

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Section: B

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

#include <iostream>

using namespace std;

int main(){

char province;

cout << "Enter the first letter of the province: ";

cin >> province;

switch (province){ /\*take first letter of province as input and use switch case

to output their population\*/

case 'b':

cout << "Population: 12,335,129";

break;

case 'p':

cout << "Population: 109,989,655";

break;

case 's':

cout << "Population: 47,854,510";

break;

case 'k':

cout << "Population: 30,508,920";

break;

default:

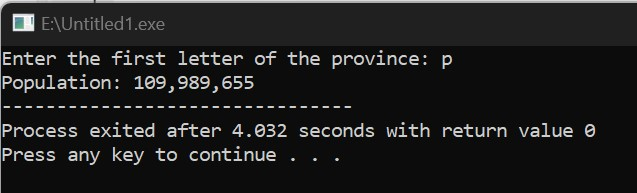
cout << "Not a province.";

break;

}

return 0;

}



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

#include <iostream>

using namespace std;

int main()

{

char letter;

cout << "Enter letter: ";

cin >> letter;

switch (letter){ /\* using switch case to check if the letter

is a vowel or not\*/

case 'a': case 'e': case 'i': case 'o': case 'u':

cout << "It's a vowel.";

break;

default:

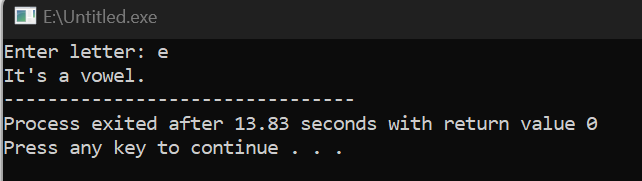
cout << "It's a consonant.";

break;

}

return 0;

}



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

#include <iostream>

using namespace std;

int main()

{

int number;

cout << "Enter number: ";

cin >> number;

switch (number > 0){ /\* Using nested switch case to check if

number is positive, negative

or equal to zero\*/

case true:

cout << "Positive";

break;

switch (number < 0)

case true:

cout << "Negative";

break;

case false:

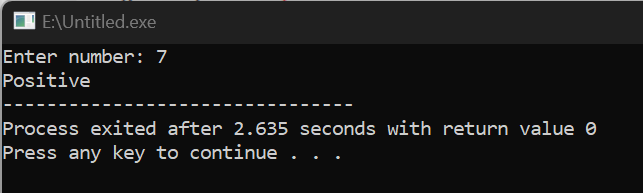
cout << "Equal to zero";

break;

}

return 0;

}



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

#include <iostream>

using namespace std;

int main()

{

int age;

cout << "Enter your age: ";

cin >> age;

// using nested if conditions to declare the age group if age is given

if (age < 18){

if (age <= 12){

cout << "You're a child.";

}

else {

cout << "You're a teenager.";

}

}

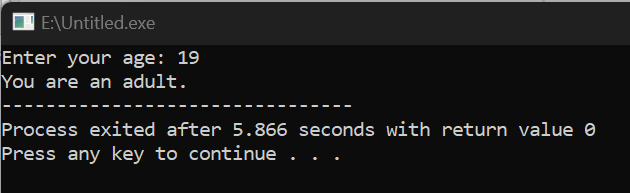
else {

cout << "You are an adult.";

}

return 0;

}



**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.**

#include <iostream>

using namespace std;

int main()

{

int a, b , c;

cout << "Enter 3 numbers: ";

cin >> a >> b >> c;

if (a > b){

if (a > c){

cout << a << " is largest";

}

else{

cout << c << " is largest";

}

}

else {

if (b > c){

cout << b << " is largest";

}

else {

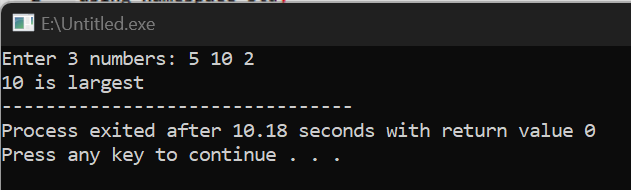
cout << c << " is largest";

}

}

return 0;

}



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

#include <iostream>

using namespace std;

int main()

{

char letter;

cout << "Enter a letter: ";

cin >> letter;

if (letter == 'a' || 'e' || 'i' || 'o' || 'u'){

if (letter == 'A' || 'E' || 'I' || 'O' || 'U'){

cout << "It's a Vowel";

}

}

else {

cout << "It's a consonant.";

}

    return 0;

}

