

Computer Programming Lab

Assignment no 2

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Manuel 3

Home tasks

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

```
C:\Users\LENOVO\manuel3hometask1\cmake-build-debug\manuel3hometask1.exe
Select a province:
1. Punjab
2. Sindh
3. KPK
4. Balochistan
Enter your choice (1-4): 2
Population of Sindh= 60000000

Process finished with exit code 0
```

2.

```
#include <iostream>
    using namespace std;

int main() {
        char character;
        cout<<" Enter a character = ";
        cin>>character;

        switch (character){
        case 'a':
        case 'e':
        case 'i':
        case 'o':
        case 'u':
        case 'A':
        case 'A':
        case 'I':
        case 'I':
        case 'I':
        case 'O:
        case 'U':
        case
```

```
C:\Users\LENOVO\manuel3hometask2\cmake-build-debug\manuel3hometask2.e
Enter a character = v
v character is consonant

Process finished with exit code 0
```

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

```
C:\Users\LENOVO\manuel3hometask3\cmake-build-debug\manuel3hometask3.exe
Enter a number= 5
The number is positive.
Process finished with exit code 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;

   // Input
   cout << "Enter your age = ";
   cin >> age;

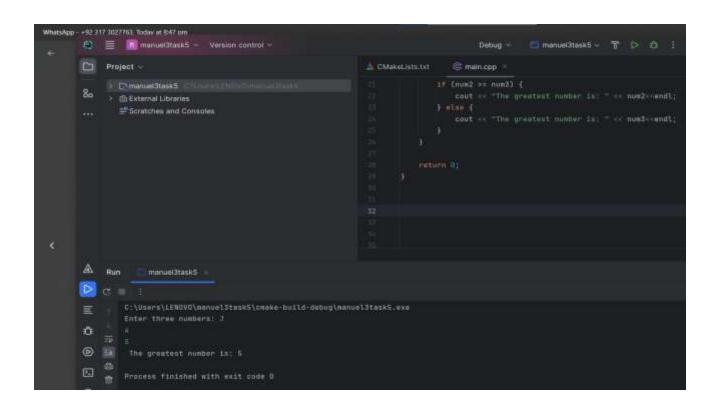
   // Checking if the person is an adult, teenager, or child
   if (age >= 18) {
      cout << "You are an adult.";
   }
   else {
      if (age >= 13) {
         cout << "You are a teenager.";
      } else {
         cout << "You are a child.";
      }
   }
}

return 0;
}</pre>
```

```
C:\Users\LENOVO\manuel3hometask4\cmake-build-debug\manuel3hometask4.exe
Enter your age = 13
You are a teenager.
Process finished with exit code 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() {
    double num1, num2, num3;
    cout << "Enter three numbers: ";
    cin >> num1 >> num2 >> num3;
    if (num1 >= num2) {
        if (num1 >= num3) {
            cout << "The greatest number is: " << num1<<endl;</pre>
        else {
            cout << "The greatest number is: " << num3<<endl;</pre>
    else {
        if (num2 >= num3) {
            cout << "The greatest number is: " << num2<<endl;</pre>
        } else {
            cout << "The greatest number is: " << num3<<endl;
    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 ch;

    cout << "Enter an alphabet: "; // alphabets in lower case
    cin >> ch;

// nested if -else statement

if (ch >= 'a' && ch <= 'z') {
    if (ch == 'a' || ch == 'i' || ch == 'o' || ch == 'u') {
        cout << ch << " is a vowel." << endl;
    }

    else {
        cout << ch << " is a consonant." << endl;
    }

else {
        cout << "Invalid input. Please enter an alphabet." << endl;
}

return 0;
}</pre>
```

