

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

```
int main()
{int x;
  cout << "enter 1 for Balochistan's population,2 for KPK,3 for Punjab and 4 for Sindh" << endl;
  cin>>x;
  switch(x){
    case(1):
      cout<<"balochistans population is 40.85 million"<<endl;
      break;
    case(2):
      cout<<"KPK's population is 127.47 million"<<endl;
      break;
    case(3):
      cout<<"Punjab's population is 55 million"<<endl;
      break;
    case(4):
      cout<<"Sindh population is 21 million"<<endl;
      break;

  }
  return 0;
}
```

```
enter 1 for Balochistan's population,2 for KPK,3 for Punjab and 4 for Sindh
3
Punjab's population is 55 million

Process returned 0 (0x0)   execution time : 4.828 s
Press any key to continue.
```

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()
{string a;

    cout << "Enter character" << endl;
    cin>>a;
    if (a=="a"||a=="e"||a=="i"||a=="o"||a=="u"||a=="A"||a=="E"||a=="I"||a=="O"||a=="U") {
        cout<<"your character is a vowel"<<endl;

    }
    else{cout<<"your character is a consonant " <<endl;}
    return 0;
}
```

Enter character

e

your character is a vowel

Process returned 0 (0x0) execution time : 1.828 s

Press any key to continue.

—

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

```
using namespace std;

int main()
{int number;

    cout << "Enter a number: ";
    cin >> number;

    switch (number>0?1:(number<0?-1:0)) {
        case 1:
            cout << "The number is positive." << std::endl;
            break;
        case -1:
            cout << "The number is negative." << std::endl;
            break;
        default:
            cout << "The number is zero." << std::endl;
    }

    return 0;
}
```

```
Enter a number: -21
The number is negative.

Process returned 0 (0x0)   execution time : 1.785 s
Press any key to continue.
_
```

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" << endl;
  cin>>age;
  if(age>12){
    if (age<20){
      cout<<"you are a teenager"<<endl;

    }
    else{ cout<<"you are an adult"<<endl; }

  }
  else{ cout<<"a you are a child"<<endl; }

  return 0;
}
```

```
enter your age
19
you are a teenager
```

```
Process returned 0 (0x0)   execution time : 3.089 s
Press any key to continue.
```

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.

```
int main()
{int num1,num2,num3;
  cout << "enter integer 1to 3 respectively" << endl;
  cin>>num1;
  cin>>num2;
  cin>>num3;
  if(num1>num2){
    if (num1>num3){
      cout<<"integer 1 is the greatest"<<endl;

    }
    else{ cout<<"integer 3 is the greatest"<<endl; }
    ostream std::cout
  }
  else if(num2>num1){
    if (num2>num3){
      cout<<"integer 2 is the greatest"<<endl;

    }
    else{ cout<<"integer 3 is the greatest"<<endl; }

  }
  else{ cout<<"2 or more integers equal"<<endl; }

  return 0;
}
```

```
enter integer 1to 3 respectively
21
32
1
integer 2 is the greatest

Process returned 0 (0x0)   execution time : 2.784 s
Press any key to continue.
_
```

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 you character" << endl;
  cin>>letter;

  if ( letter!='a'&& letter!='e'&& letter!='i'&& letter!='o'&& letter!='u' ) {
    if(letter=='A' || letter=='E' || letter=='I' || letter=='O' || letter=='U'){
      cout<<"your letter is a vowel"<<endl;
    }
    else{cout<<"letter is a consonant"<<endl;}

  }
  else{cout<<"letter is a vowel"<<endl;}

  return 0;
}
```

```
Enter you character
O
your letter is a vowel

Process returned 0 (0x0)    execution time : 2.173 s
Press any key to continue.
_
```