# LAB ASSIGNMENT

Submitted To:

Sir Affan

Submitted by:

Bushra Farooq

Qalam Id#479973

```
#include <iostream>
using namespace std;
int main() {
  char province;
  int population;
     cout << "Enter the first letter of the province (P, S, K, B): ";
     cin >> province;
  switch (province) {
  case 'P':
    population = 110012442; // Population of Punjab
    break;
  case 'S':
    population = 47886041; // Population of Sindh
    break;
  case 'K':
    population = 30874180; // Population of Khyber Pakhtunkhwa (KPK)
    break;
  case 'B':
    population = 12805137; // Population of Balochistan
    break;
  default:
   cout << "Invalid province code." << std::endl;
  }
    cout << "Population of the selected province: " << population << endl;
  return 0;
}
```

```
Enter the first letter of the province (P, S, K, B): K
Population of the selected province: 30874180

C:\Users\Misbah\source\repos\ConsoleApplication8\x64\Debug\ConsoleApplication8.exe (process 22680) ex:
Press any key to close this window . . .
```

```
#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 'E':
  case 'I':
  case '0':
  case 'U':
    cout << character << " is a vowel." << endl;
    break;
```



```
default:
    cout << character << " is a consonant." << endl;
}
return 0;
}</pre>
```

```
Enter a character: S
S is a consonant.

C:\Users\Misbah\source\repos\ConsoleApplication8\x64\Debug\ConsoleApplication8.exe (process 2688) ex
Press any key to close this window . . .
```

```
#include <iostream>
using namespace std;
int main() {
   int num;

   cout << "Enter a digit: ";
   cin >> num;

   if (num > 0) {
      cout << "The digit is positive." << endl;
   }
   else if (num < 0) {
      cout << "The digit is negative." << endl;
   }
   else {
      cout << "The digit is zero." << endl;
   }
   return 0;
}</pre>
```

```
Enter a digit: -5
The digit is negative.

C:\Users\Misbah\source\repos\ConsoleApplication8\x64\Debug\ConsoleApplication8.exe (process 15236) exited Press any key to close this window . . .
```

```
#include <iostream>
using namespace std;
int main() {
   int age;
   cout << "Enter your age: ";
   cin >> age;

if (age >= 18) {
    cout << " You are an adult." << endl;
}
   else if (age >= 13) {
    cout << " you are teenager." << endl;
}

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

return 0;
}</pre>
```

```
Enter your age: 45
You are an adult.

C:\Users\Misbah\source\repos\ConsoleApplication9\x64\Debug\ConsoleApplication9.exe (process 20916) exi
Press any key to close this window . . .
```

```
#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 << num1 << " is the greatest number." << endl;
    }
    else {
      cout << num3 << " is the greatest number." << endl;
    }
  }
  else {
    if (num2 >= num3) {
      cout << num2 << " is the greatest number." << endl;
    else {
      cout << num3 << " is the greatest number." << endl;
    }
  }
  return 0;
```



```
Enter three numbers: 78
67
45
78 is the greatest number.

C:\Users\Misbah\source\repos\ConsoleApplication8\x64\Debug\ConsoleApplication8.exe (process 9692) exited wi
Press any key to close this window . . .
```

}

```
#include <iostream>
using namespace std;
int main() {
  char chr;
  cout << "Enter a character: ";
  cin >> chr;
  if ((chr >= 'a' \&\& chr <= 'z') || (chr >= 'A' \&\& chr <= 'Z')) {
     if (chr == 'a' || chr == 'e' || chr == 'i' || chr == 'o' || chr == 'u' || chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr
== 'U') {
       cout << chr << " is a vowel." << endl;
       cout << chr << " is a consonant." << endl;
     }
  }
  else {
     cout << "Invalid input. Please enter an alphabet." << endl;</pre>
  }
  return 0;
}
```

