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ME-15-C  
PROGRAMMING LAB ASSIGNMENT 3  
HOME TASK 1  
Q 1

```
#include <iostream>
using namespace std;
int main() {
    int choice;
    cout << "Enter the number of province you desire as an output: ";
    //1 for Punjab, 2 for Sindh, 3 for KPK, 4 for Balochistan
    cin >> choice;
    switch (choice) {
        case 1:
            cout << "Punjab's population is 12876596";
            break;
        case 2:
            cout << "Sindh's population is 55687647";
            break;
        case 3:
            cout << "KPK's population is 3894567";
            break;
        case 4:
            cout << "Balochistan's population is 2123434";
            break;
        default:
            cout << "Wrong key pressed";
            break;
    }
    return 0;
}
```

Q 2

```
#include <iostream>
using namespace std;
int main() {
    char letter;
    cout<<"Enter the desired letter: ";
    cin>>letter;
    switch (letter) {
        case 'a':
            cout <<"vowel!";
            break;
        case 'e':
            cout <<"vowel!";
            break;
        case 'i':
            cout <<"vowel!";
            break;
        case 'o':
            cout <<"vowel!";
            break;
        case 'u':
            cout <<"vowel!";
            break;
        default:
            cout <<"consonant!";
            break;
    }
    return 0;
}
```

Q 3

```
#include <iostream>
using namespace std;
int main() {
    int num, sign;
    cout<<"Enter the number: ";
    cin>>number;
    if (number > 0) {
        sign=1;
    } else if (number < 0) {
        sign=2;
    } else {
        sign=3;
    }
    switch (sign) {
        case 1:
            cout <<"The number = +ve";
            break;
        case 2:
            cout <<"The number = -ve";
            break;
        case 3:
            cout << "The number = 0";
            break;
    }
    return 0;
}
```

Q 4

```
#include <iostream>
using namespace std;
int main() {
    int age;
    cout <<"Enter the age:";
    cin>>age;
    if (age>0){
        if (age>12){
            cout <<"You are a teenager!";
        } else if (age>19){
            cout <<"You are a grown up adult!";
        } else{
            cout <<"You are too young!";
        }
    } else{
        cout <<"Inappropriate age entered!";
    }
    return 0;
}
```

Q 5

```
#include <iostream>
using namespace std;
int main() {
    int a, b, c;
    cout<<"Enter 3 numbers:";
    cin>>a;
    cin>>b;
    cin>>c;
    if (a>b){
        if (b>c){
            cout<<"The GREATEST number is:"<<a;
        } else {
            cout<<"The GREATEST number is:"<<c;
        }
    }else {
        if (b>c) {
            cout << "The GREATEST number is:"<<b;
        } else {
            cout<<"The GREATEST number is:"<<c;
        }
    }
    return 0;
}
```