

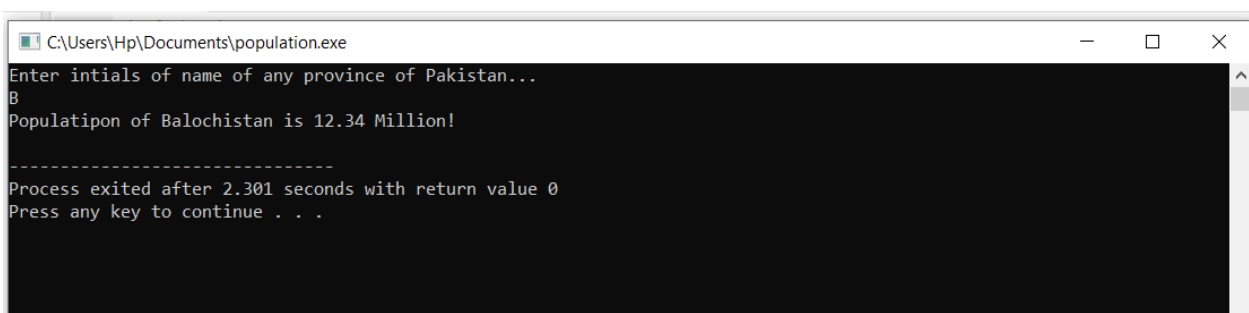
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Task 1

[*] population.cpp

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      char Prov;
6      cout<<"Enter initials of name of any province of Pakistan..."<<endl;
7      cin>>Prov;
8      switch (Prov){
9          case 'P' :
10             cout<<"Populatipon of Punjab is 110 Million!"<<endl;
11             break;
12             case 'S' :
13                 cout<<"Populatipon of Sindh is 47.9 Million!"<<endl;
14                 break;
15                 case 'K' :
16                     cout<<"Populatipon of Khyber Pakhtunkhwa is 40.8 Million!"<<endl;
17                     break;
18                     case 'B' :
19                         cout<<"Populatipon of Balochistan is 12.34 Million!"<<endl;
20                         break;
21                     default :
22                         cout<<"Kindly, insert correct initial on province"<<endl;
23                     }
24
25
26     return 0;
27 }
```



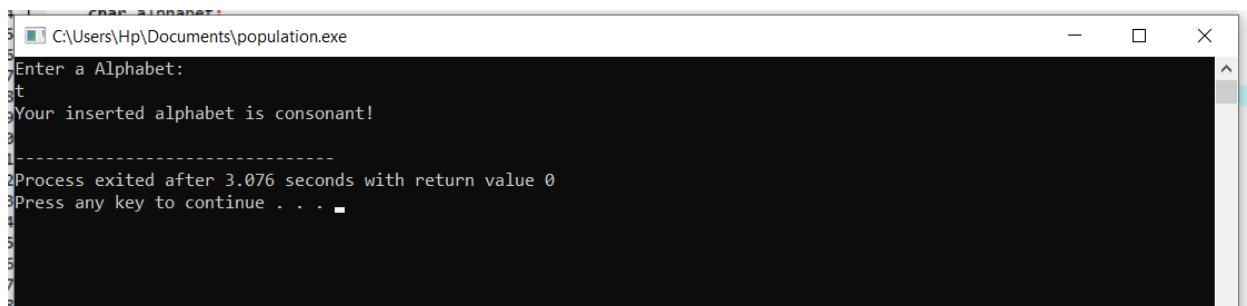
```
C:\Users\Hp\Documents\population.exe
Enter initials of name of any province of Pakistan...
B
Populatipon of Balochistan is 12.34 Million!

-----
Process exited after 2.301 seconds with return value 0
Press any key to continue . . .
```

In above task, we take initials of any province of a country, then population of that province is displayed.

Task 2

```
1  #include <iostream>
2  using namespace std;
3  int main(){
4      char alphabet;
5      cout<<"Enter a Alphabet: "<<endl;
6      cin>>alphabet;
7      switch (alphabet){
8          case 'a' : case 'e' : case 'i' : case 'o' : case 'u' :
9              cout<<"Given alphabet is Vowel!"<<endl;
10             break;
11             default :
12                 cout<<"Your inserted alphabet is consonant!"<<endl;
13
14
15
16     }
17
18     return 0;
19
20
21
22
23
24 }
```

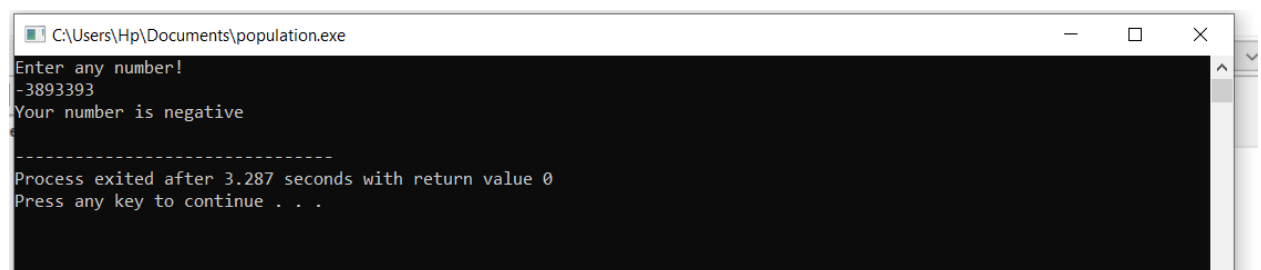


```
C:\Users\Hp\Documents\population.exe
Enter a Alphabet:
t
Your inserted alphabet is consonant!
-----
Process exited after 3.076 seconds with return value 0
Press any key to continue . . .
```

in this code , a character is taken as input and is checked whether it is vowel or consonant

Task 3

```
population.cpp
1  #include <iostream>
2  using namespace std;
3  int main(){
4      int number;
5      cout<<"Enter any number!"<<endl;
6      cin>>number;
7
8      switch(number){
9          case 0 :
10             cout<<"Given number is zero!"<<endl;
11             break;
12
13             default :
14                 if (number<0){
15
16                     cout<<"Your number is negative"<<endl;
17
18                 }else {
19                     cout<<"Your number is positive"<<endl;
20                 }
21             }
22
23
24
25
26
27
28     return 0;
29
30
31
32 }
```



```
C:\Users\Hp\Documents\population.exe
Enter any number!
-3893393
Your number is negative
-----
Process exited after 3.287 seconds with return value 0
Press any key to continue . . .
```

In this code, a number is taken as input and it is decide that if it zero or positive or negative numbr.

Task 4

```
main.cpp
#include <iostream>
using namespace std;
int main(){
    int age;
    cout<<"Enter your age!"<<endl;
    cin>>age;
    if (age<20){
        if(age>13){
            cout<<"you are teenager"<<endl;
        }
    }
    else{
        cout<<"you are kiddo"<<endl;
    }
    else{
        cout<<"you are adult"<<endl;
    }
    return 0;
}
```

C:\Users\Hp\Documents\population.exe

Enter your age!

32

you are adult

e

Process exited after 1.434 seconds with return value 0

Press any key to continue . . .

in this code, age is taken as input and it is decide if he is adult ,teenage or a kid.

Task 5

population.cpp

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

int main() {
    double num1, num2, num3;

    // Input three numbers from the user
    cout << "Enter the first number: ";
    cin >> num1;
    cout << "Enter the second number: ";
    cin >> num2;
    cout << "Enter the third number: ";
    cin >> num3;

    // Finding the greatest number using nested if-else statements
    if (num1 >= num2) {
        if (num1 >= num3) {
            cout << "The greatest number is: " << num1 << endl;
        } else {
            cout << "The greatest number is: " << num3 << endl;
        }
    } else {
        if (num2 >= num3) {
            cout << "The greatest number is: " << num2 << endl;
        } else {
            cout << "The greatest number is: " << num3 << endl;
        }
    }

    return 0;
}
```

C:\Users\Hp\Documents\population.exe

155 Enter the first number: 342

Enter the second number: 453838

Enter the third number: 930

The greatest number is: 453838

Process exited after 8.887 seconds with return value 0

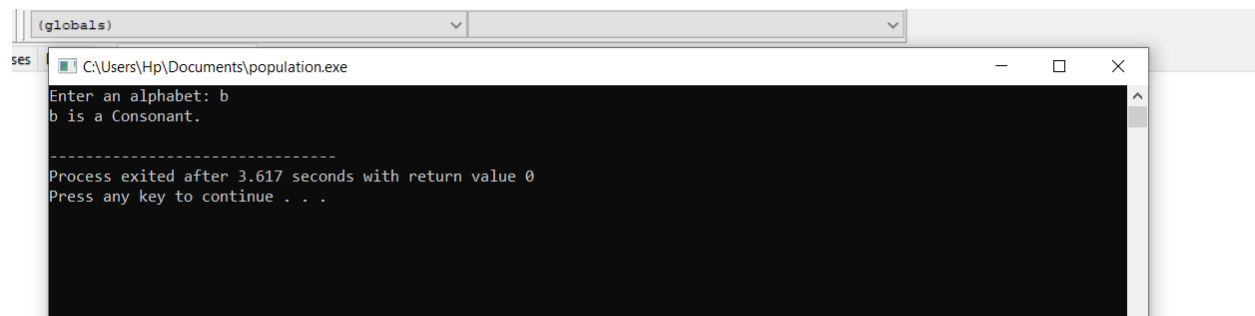
Press any key to continue . . .

In above code, three numbers are taken as input and decide which is the biggest number.

Task 6

[*] population.cpp

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      char x;
6
7      cout << "Enter an alphabet: ";
8      cin >> x;
9
10     if (x >= 'a' && x <= 'z') {
11         if (x == 'a' || x == 'e' || x == 'i' || x == 'o' || x == 'u') {
12             cout << x << " is a Vowel." << endl;
13         } else {
14             cout << x << " is a Consonant." << endl;
15         }
16     } else {
17         cout << "Invalid input. Please enter a lowercase alphabet letter." << endl;
18     }
19
20     return 0;
21 }
```



```
(globals)
C:\Users\Hp\Documents\population.exe
Enter an alphabet: b
b is a Consonant.
-----
Process exited after 3.617 seconds with return value 0
Press any key to continue . . .
```

in this code , it is decide that whether the alphabet which is taken as input is vowel or consonant.

