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**Assignment: FOP 03**

**Dated: 16-10-2023**

**//TASK 01**

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    int province;                                //defining variables
```

```
    int population;                              //defining variables
```

```
    cout << "Enter province (1 for Punjab, 2 for Sindh, 3 for KPK, 4 for Balochistan): ";  
                                                //taking output
```

```
    cin >> province;                            //entering province no.
```

```
    switch (province) {
```

```
        case 1:
```

```
            cout << "Population of Punjab is 127,474,000.";
```

```
            break;
```

```
        case 2:
```

```
            cout << "Population of Sindh is 54,858,515.";
```

```
            break;
```

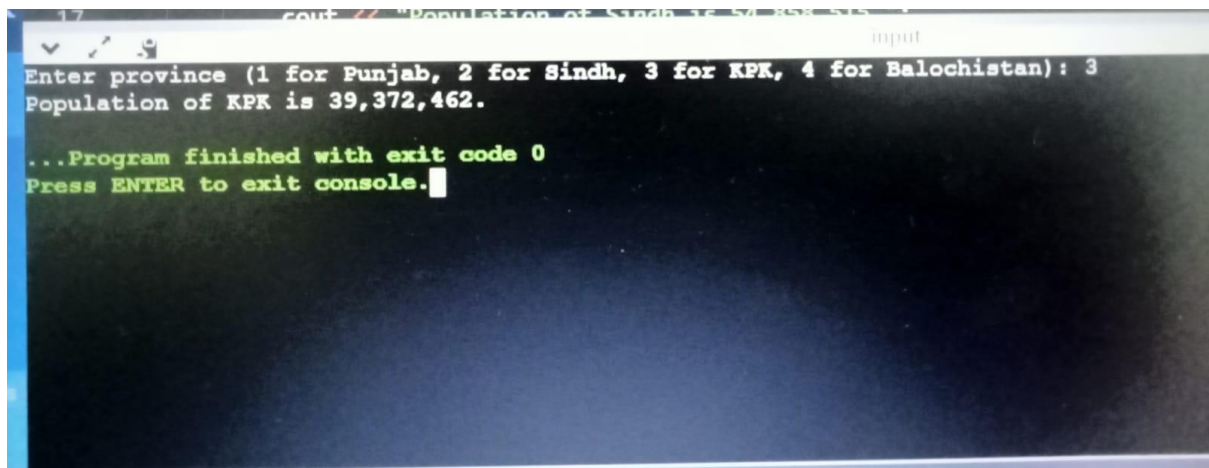
```
        case 3:
```

```

        cout << "Population of KPK is 39,372,462.";
        break;
    case 4:

        cout << "Population of Balochistan is 21,700,000.";
        break;
    }
    return 0;
}

```



## //TASK 02

```

#include <iostream>

using namespace std;

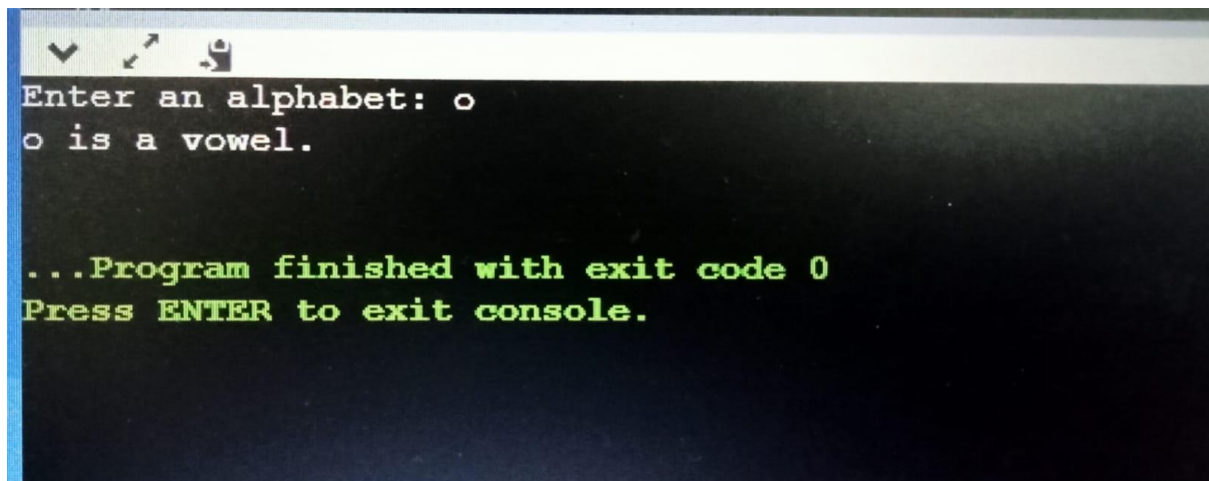
int main() {
    char ch;                                //defining variables
    cout << "Enter an alphabet: ";          //taking output
    cin >> ch;                              //entering character
}

```

```

switch (ch) {
    case 'a':
    case 'e':
    case 'i':
    case 'o':
    case 'u':
        cout << ch << " is a vowel." << endl;    //taking output
}

```



### //TASK 03

```

#include <iostream>

using namespace std;

int main() {
    int num;    //defining variables

    cout << "Enter a number: ";

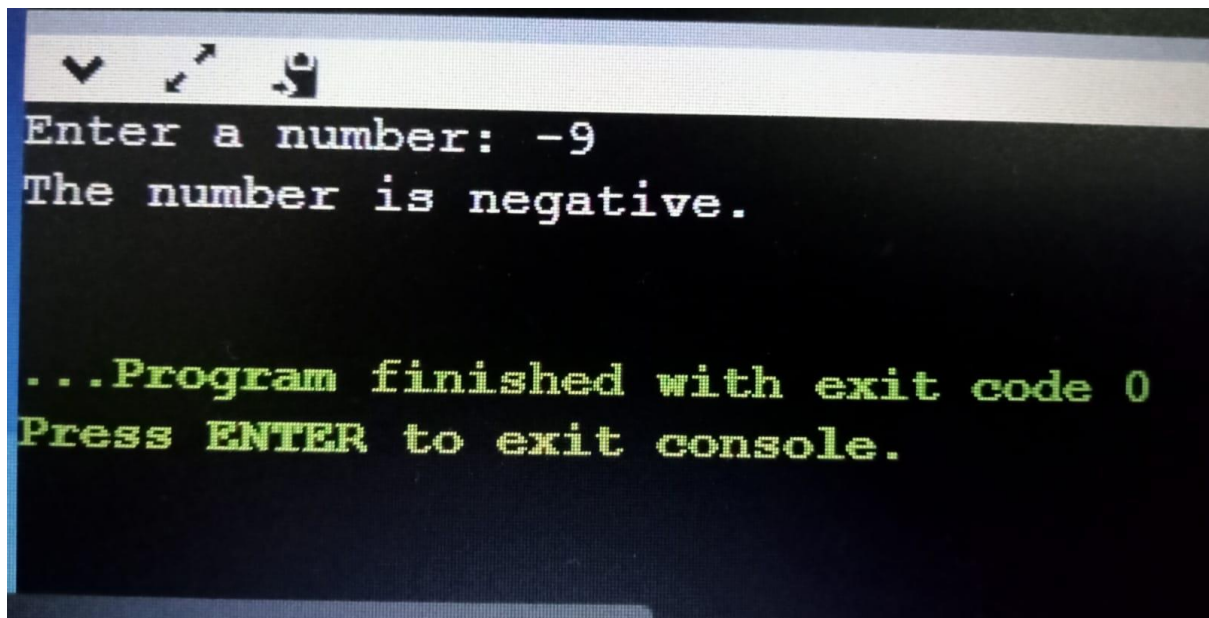
    cin >> num;    //entering num

    if (num > 0)

```

```
        cout << "The number is positive." << endl;
    else if (num < 0)
        cout << "The number is negative." << endl;
    else
        cout << "The number is zero." << endl;

    return 0;
}
```



#### **//TASK 04**

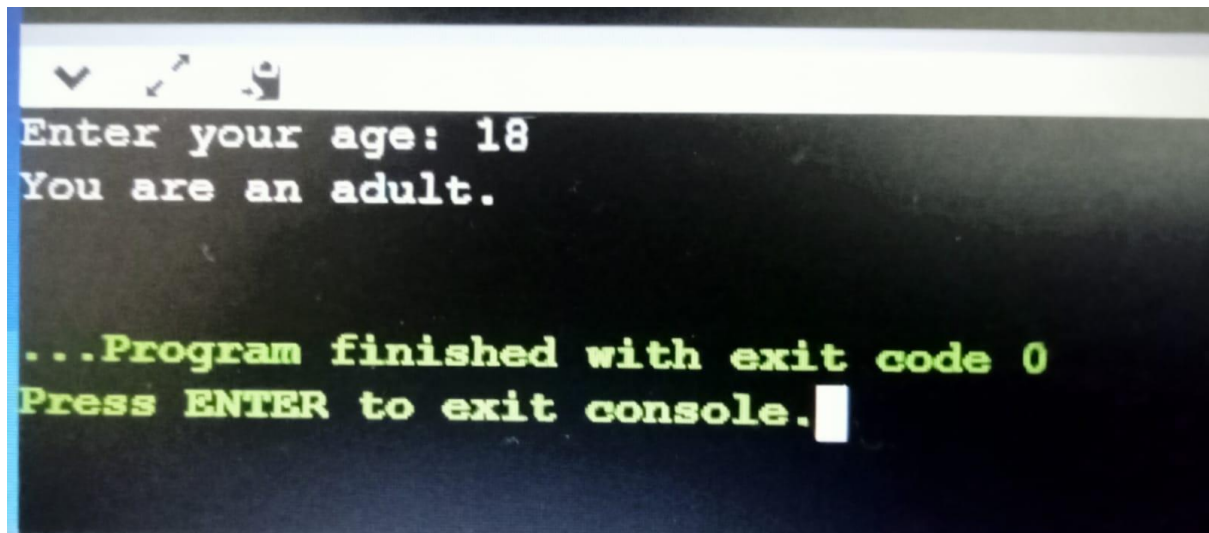
```
#include <iostream>
using namespace std;
```

```
int main() {
```

```
    int age;
```

```
//defining variables
```

```
cout << "Enter your age: ";  
cin >> age;                                //entering age  
  
if (age >= 18) {  
    cout << "You are an adult." << endl;  
} else if (age >= 13) {  
    cout << "You are a teenager." << endl;  
} else {  
    cout << "You are a child." << endl;  
}  
  
return 0;  
}
```



## //TASK 05

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

```

int num1, num2, num3;                                //defining variables

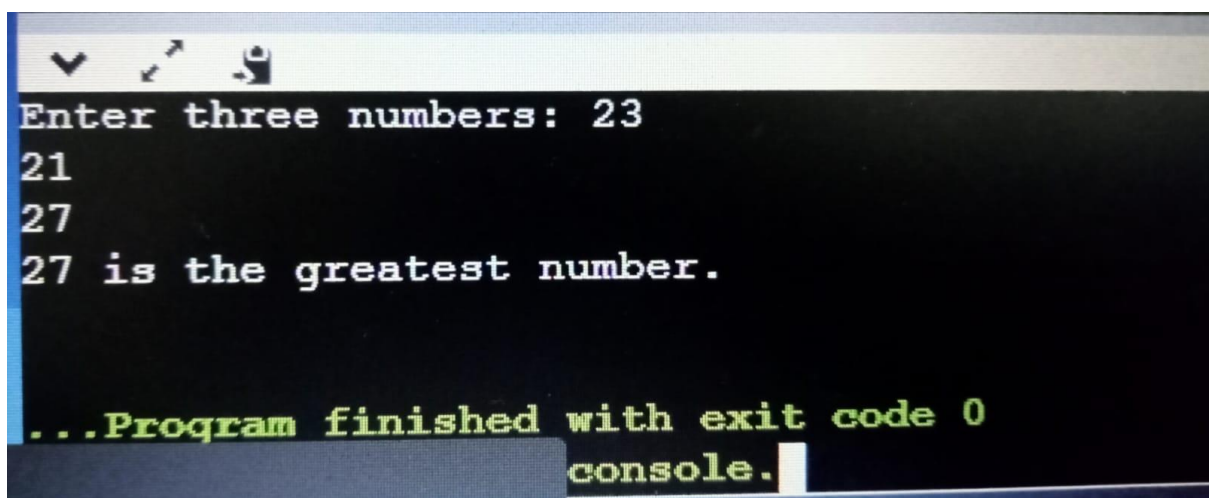
cout << "Enter three numbers: ";

cin >> num1 >> num2 >> num3;                        //entering numbers

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: 23
21
27
27 is the greatest number.

...Program finished with exit code 0
console.

```

## //TASK 06

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    char ch;                                //defining variables
```

```
    cout << "Enter a character: ";
```

```
    cin >> ch;                             //entering character
```

```
    ch = tolower(ch);
```

```
    if ((ch >= 'a' && ch <= 'z')) {
```

```
        if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
```

```
            cout << ch << " is a Vowel." << endl;
```

```
        } else {
```

```
            cout << ch << " is a Consonant." << endl;
```

```
        }
```

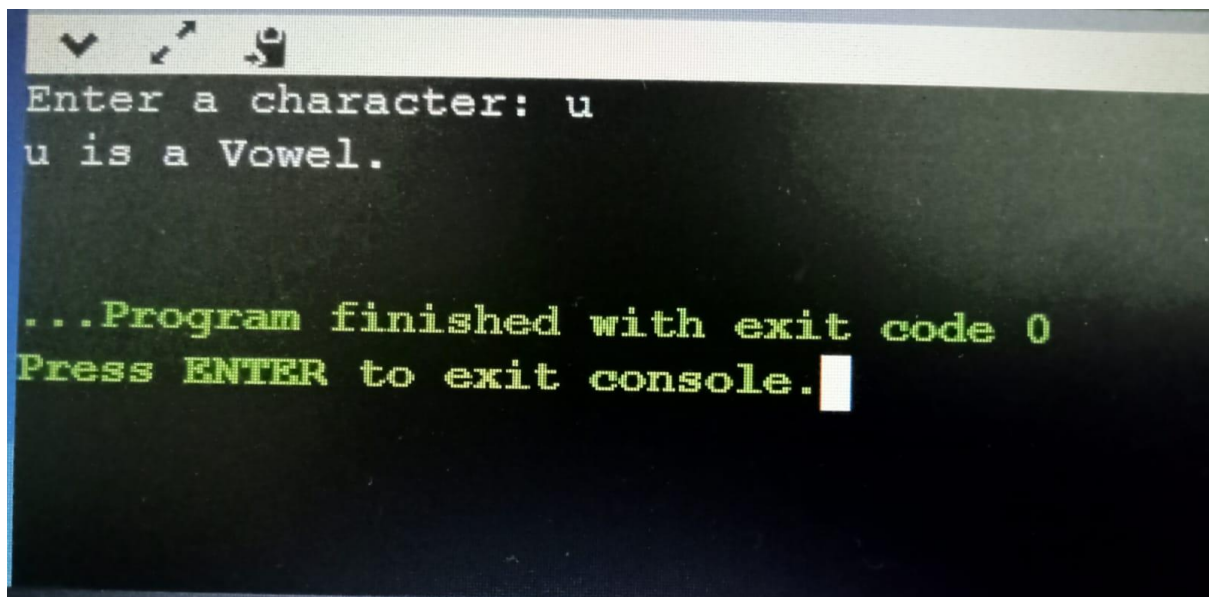
```
    } else {
```

```
        cout << "Invalid input. Please enter a valid alphabet." << endl;
```

```
    }
```

```
    return 0;
```

```
}
```



//THE END