C++ Program to find the length of string object

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

int main() {
        string str = "C++ Programming";

        // you can also use str.length()
        cout << "String Length = " << str.size();
        return 0;
}</pre>
```

C++ Program to Find the Number of Vowels, Consonants, Digits and White Spaces in a String

```
#include <iostream>
using namespace std;
int main()
{
        char line[150];
        int vowels, consonants, digits, spaces;
        vowels = consonants = digits = spaces = 0;
        cout << "Enter a line of string: ";
        cin.getline(line, 150);
        for(int i = 0; line[i]!='\0'; ++i)
        if(line[i]=='a' || line[i]=='e' || line[i]=='i' ||
        line[i]=='o' || line[i]=='u' || line[i]=='A' ||
        line[i]=='E' || line[i]=='I' || line[i]=='O' ||
        line[i]=='U')
        {
        ++vowels;
        else if((line[i]>='a'&& line[i]<='z') || (line[i]>='A'&& line[i]<='Z'))
        ++consonants;
        }
        else if(line[i]>='0' && line[i]<='9')
        {
```

```
++digits;
}
else if (line[i]==' ')
{
    ++spaces;
}
}

cout << "Vowels: " << vowels << endl;
    cout << "Consonants: " << consonants << endl;
    cout << "Digits: " << digits << endl;
    cout << "White spaces: " << spaces << endl;
    return 0;
}</pre>
```

#include<iostream>

C++ program to enter month number and print number of days in month.

```
using namespace std;
int main()
{
       int month;
       cout << "Enter month number (1-12):";
       cin >> month;
       if(month == 1)
       cout << "Enter month : January " <<endl;</pre>
       cout << "No. of days : 31 days" <<endl;
       }
       else if(month == 2)
       cout << "Enter month : February " <<endl;</pre>
       cout << "No. of days: 28 or 29 days" <<endl;
       else if(month == 3)
       cout << "Enter month : March " <<endl;</pre>
       cout << "No. of days: 31 days" <<endl;
       else if(month == 4)
```

```
cout << "Enter month : April " <<endl;
cout << "No. of days : 30 days" <<endl;
else if(month == 5)
cout << "Enter month : May " <<endl;
cout << "No. of days: 31 days" <<endl;
else if(month == 6)
cout << "Enter month : June " <<endl;
cout << "No. of days: 30 days" <<endl;
else if(month == 7)
cout << "Enter month : July " <<endl;
cout << "No. of days: 31 days" <<endl;
else if(month == 8)
cout << "Enter month : August " <<endl;
cout << "No. of days: 31 days" <<endl;
else if(month == 9)
cout << "Enter month : September " <<endl;</pre>
cout << "No. of days: 30 days" <<endl;
}
else if(month == 10)
cout << "Enter month: October " <<endl;
cout << "No. of days: 31 days" <<endl;
else if(month == 11)
cout << "Enter month : November " <<endl;
cout << "No. of days: 30 days" <<endl;
else if(month == 12)
cout << "Enter month: December " <<endl;
cout << "No. of days: 31 days" <<endl;
}
```

```
else
{
    cout << "Invalid input! Please enter month number between (1-12).";
}
return 0;
}</pre>
```

Write C++ program to print alphabets from a to z

```
using namespace std;
int main()
{
     int character=0;
     char ch='A';
     do
     {
        character=int(ch);
        cout<<ch<<" ";
        character++;
        ch=char(character);
     }
     while(ch<='Z');
}</pre>
```

#include <iostream>

Write C++ program to print all negative elements in an array

```
#include <iostream>
#define MAX_SIZE 100 //Maximum size of the array
using namespace std;
int main()
{
    int arr[MAX_SIZE]; //Declares an array size
    int i, num;

    //Enter size of array
    cout<<"Enter size of the array: ";
    cin>>num;

    //Reading elements of array
```

```
cout<<"Enter elements in array: ";
for(i=0; i<num; i++)
{
    cin>>arr[i];
}

cout<<"All negative elements in array are:";
for(i=0; i<num; i++)
{
    //Printing negative elements
    if(arr[i] < 0)
    {
       cout<<arr[i];
    }
    }

    return 0;
}</pre>
```

Write C++ program to put even and odd elements of array in two separate array

```
#include <iostream>
#define MAX_SIZE 100 //Maximum size of the array
using namespace std;
// Function declaration to print array
void printArray(int arr[], int len);
int main()
       int arr[MAX_SIZE];
       int even[MAX_SIZE];
       int odd[MAX_SIZE];
       int evenCount, oddCount;
       int i, size;
       // Reading size of the array
       cout<<"Enter size of the array: ";
       cin>>size;
       // Reading elements in array
       cout<<"Enter elements in the array: ";
```

```
for (i = 0; i < size; i++) {
       cin>>arr[i];
       }
        evenCount = 0;
        oddCount = 0;
       for (i = 0; i < size; i++) {
       // If arr[i] is odd
        if (arr[i] & 1) {
       odd[oddCount] = arr[i];
        oddCount++;
       } else {
       even[evenCount] = arr[i];
       evenCount++;
       }
       }
        cout<<"\nElements of even array: ";
        printArray(even, evenCount);
       cout<<"\nElements of odd array: ";
        printArray(odd, oddCount);
        return 0;
       }
       //Logic
       void printArray(int arr[], int len) {
       int i;
       for (i = 0; i < len; i++) {
       cout<<arr[i]<<"\t";
       cout<<"\n";
}
```