Q 1. Write a program to swap to numbers.

Q 2. Write a program to find the largest number among three numbers entered by the user.

Q 3. Write a program to check whether a year entered by a user is Leap year or not.

```
Code :
              #include <iostream>
                using namespace std;
                 int main()
                                 int year;
                                 cout << "Enter a year: ";</pre>
                                   cin >> year;
                            if (year % 4 == 0) {
                               if (year % 100 == 0) {
                                   if (year % 400 == 0)
                                       cout << year << " is a leap year.";</pre>
                             else
                                     cout << year << " is not a leap year.";</pre>
                          else
                                   cout << year << " is a leap year.";</pre>
                       else
                              cout << year << " is not a leap year.";</pre>
    return 0;
```

Q.4 Write a program to display Fibonacci Series upto nth term/(Using loops)

```
Code :
            #include <iostream>
               using namespace std;
               int main()
                        int n, t1 = 0, t2 = 1, nextTerm = 0;
                           cout << "Enter the number of terms: ";</pre>
                                cout << "Fibonacci Series: ";</pre>
                                   for (int i = 1; i <= n; ++i) {
                                       // Prints the first two terms.
                                        if(i == 1) {
                                            cout << t1 << ", ";
                             if(i == 2) {
                                   cout << t2 << ", ";
                     nextTerm = t1 + t2;
                        t1 = t2;
                            t2 = nextTerm;
                                cout << nextTerm << ", ";</pre>
    return 0;
```

Q.5 Write a program to check whether a number is Prime or Not.

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

```
int i, n;
bool isPrime = true;
            cout << "Enter a positive integer: ";</pre>
            // 0 and 1 are not prime numbers
                 if (n == 0 || n == 1) {
                  isPrime = false;
                     for (i = 2; i <= n / 2; ++i) {
                      if (n % i == 0) {
                        isPrime = false;
           if (isPrime)
       else
                        cout << n << " is not a prime number";</pre>
```

#### Q 6.Print this pattern using loops

```
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```

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```
Code : #include <iostream>
```

```
using namespace std;
       void triangle(int n)
       triangle(n);
return 0;
```

Q 7 . Write a program that takes n element from the user and display the second largest element of an array.

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

```
int main ()
    int A[10], n, i, j, x;
    cout << "Enter size of array : ";</pre>
    cin >> n;
    cout << "Enter elements of array : ";</pre>
    for (i = 0; i < n; i++)
        cin >> A[i];
    for (i = 0; i < n; i++)
       for (j = i + 1; j < n; j++)
             if (A[i] < A[j])</pre>
                  x = A[i];
                  A[i] = A[j];
                  A[j] = x;
         }
    cout << "Second largest number : " << A[1];</pre>
    cout << "\nSecond smallest number : " << A[n - 2];</pre>
 return 0;
```

## Q 8. https://www.hackerrank.com/challenges/array-left-rotation/problem

```
Code :
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;
int main() {
```

```
int N, d; cin >> N >> d;

vector<int> v(N);

for (size_t i = 0; i < v.size(); ++i) {
    cin >> v[i];

}

d = d % N;

for (int i = d; i < N; ++i)

    cout << v[i] << ' ';

for (int i = 0; i < d; ++i)

    cout << v[i] << ' ';

return 0;
}</pre>
```

## Q 9. https://www.hackerrank.com/challenges/grading/problem

#### Code:

Q 10. https://www.hackerrank.com/challenges/camelcase/problem

# Code:

```
#include <map>
#include <set>
#include <list>
#include <cmath>
#include <ctime>
#include <deque>
#include <queue>
#include <stack>
#include <string>
#include <bitset>
#include <ctime>
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#include <ctime>
#inclu
```

```
#include <climits>
#include <cstring>
#include <cstdlib>
#include <fstream>
#include <numeric>
#include <sstream>
#include <iostream>
#include <algorithm>
#include <unordered_map>
using namespace std;
int main(){
string s;
cin >> s;
int t=1;
for (int i=0; i< s.length(); i++)
\pmb{if} \ (isupper(s[i]))
t++;
cout<<t<endl;
return 0;
```