

1. Write a C/C++ program using the following instructions (filename: ID.c/ ID.cpp):
 - a. Read a file named "program.cpp" (given below).
 - b. After reading file you have to **identify and count** the *unique* name of the variables and name of the preprocessor and print the result.

Input: program.cpp

```
#include<iostream>
#include<string>
#define max 5
using namespace std;

int add(int x, int y){
    return x+y;
}

int sub(int x, int y){
    return x-y;
}

int main(){
    int a=10, b=9, c=0;
    cout<<"Hello";
    c = a + b;
    int d, e;
    d = c - 10;
    e = d * 5 ;
    return 0;
}
```

Sample Output:

```
Variable-1: a
Variable-2: b
Variable-3: c
Variable-4: d
Variable-5: e
Total number of the variables: 5
Preprocessor-1: include
Preprocessor-2: define
Total number of preprocessor: 2
```