

Intro (possible result)

Task:

To modify “Hello World” program so that it reads name and welcomes user.

```
/*  
 * First program using variable.  
 * Note: It reads just one single word, so if you input name that  
 * contain several words, it will print just first one  
 * /
```

```
#include <iostream.h>
```

```
void main()  
{  
    char buffer[50];  
  
    cout << "Enter your first name: ";  
    cin >> buffer;  
    cout << "Welcome " << buffer << endl;  
}
```

Longer version:

```
#include <iostream.h>
```

```
void main()  
{  
    char name[30];  
    char surname[30];  
    char occupation[50];  
    cout << "Welcome! You will be asked several questions."<<endl;  
    cout << "Please enter your First name: ";  
    cin >> name;  
    cout << "Thank you. Now please enter your Surname: ";  
    cin >> surname;  
    cout << "Thanks " << name << " " << surname << endl;  
    cout << "Please enter your occupation: ";  
    cin >> occupation;  
    cout << name << " " << surname << " is " << occupation<<endl;  
}
```

Implementation of algorithm from Monday lecture:

```
/*
 * Second, more sophisticated algorithm
 */
#include <iostream.h>

void main()
{
    int Number;
    int Total;

    cout << "Please type in number you like to examine: ";
    cin >> Number;
    if (Number < 0)
    {
        cout << "Error in input! Number must be positive!" << endl;
    }
    else
    {
        Total = (Number * (Number+1))/2;
        cout << "Result is " << Total << endl;
    }
}
```

```
/*
 * First algorithm (more "brutal force")
 */
```

```
#include <iostream.h>
```

```
void main()
{
    int Number;
    int Total;
    int k;

    cout << "Please type in number you like to examine: ";
    cin >> Number;
    if (Number < 0)
    {
        cout << "Number must be positive!" << endl;
    }
    else
    {
```

```
Total = 0;
for(k = 0 ; k <=Number ; k++)
{
    Total = Total + k;
}
cout << "Result is " << Total << endl;
}
}
```