

# SOLUTION TO ASSIGNMENT 4 - CODING PROBLEM

---

The following source code provides *one* solution for the [programming Assignment 4](#).

---

```

/*****
* Program: a4.cpp - Assignment 4 - Coding Solution *
*****/

#include <iostream>    // Input/Output Stream Objects
#include <iomanip>      // Input/Output Stream Manipulators
using namespace std;  // Specifies default namespace for objects

#define ADULT 18      /* Age (integer) breakpoint for an adult */
#define SMWD  1000.0  /* Salary (float) multiplier with degree */
#define SMWO   600.0  /* Salary (float) multiplier without degree */

int main ()
{
    int     AGE,      /* Applicant's age */
           WHN;       /* When to apply again in years */

    char DEG; /* College Degree Status (Y/N) */

    double SAL; /* Annual Salary Offer */

    system ("cls"); /* Clear the Screen */
    cout << "Applicant Screening Program\n\n";

    cout << "How old are you? ";
    cin >> AGE;

    if (AGE >= ADULT)
    {
        cout << "Do you have a college degree (Y/N)? ";
        cin >> DEG;
        if (DEG=='Y' || DEG=='y') SAL = AGE * SMWD;
        else SAL = AGE * SMWO;
        cout << "\nYou qualify!\n";
        cout << setprecision(2) << fixed;
        cout << "Your annual salary would be $" << SAL << ".\n";
        cout << "See our staff for an application.\n";
    }
    else
    {
        WHN = ADULT - AGE;
        cout << "\nSorry, you must be " << ADULT << " or older for this job.\n";
        cout << "Please apply again in " << WHN << " years.\n";
    }
    system ("pause"); // Debugging support statement to be removed
    return 0; // Send a null error code to the parent process
}

```