

QUIZ #2:

NAME:

1. Trace the following program:

```
#include<iostream>
using namespace std;
int main()
{
    int num;
    int a,b,c = 1;
    char ch = ';';
    char junk = ')';
    num = 15;
    a = 0;
    b = a;
    cout<<"\t\t\tSIDEWAYS  FACES\n";
    cout<<"WINK:\n";
    cout<<b<<"  "<<c<<"  "<<a<<"\t"<<ch<<junk;
    cout<<endl<<"SMILE\n";
    ch = ':';
    cout<<ch<<junk<<"\n";
    cout<<endl<<"FROWN\n";
    junk = '(';
    cout<<ch<<junk<<"\n";
}
```

SIDEWAYS FACES

WINK:

0 1 0 ;)

SMILE

:)

FROWN

:(

Press any key to continue

2. Trace the following program: INPUT IS: 2.3 4.5

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

int main()
{
    double x,y;
    cout<<"MATH PGM";
    cin>>x>>y;
    if (x < y)
    {
        cout<<"x is smaller";
        y = x;
    }
}
```

```

    }
    else
        cout<<"y is smaller";

    cout<<endl<<x<<y<<endl;
    cout<<fixed<<showpoint<<setprecision(2)<<x<<y;
    cout<<setfill('*')<<setw(10)<<x*y<<endl<<setw(12)<<x/y;
}
MATH PGM 2.3 4.5
x is smaller
2.32.3
2.302.30*****5.29
*****1.00Press any key to continue

```

### 3. Complete the following program:

This program prints out "Congratulations" if the user's GPA > 3.0 AND the user's year in college is 4. Otherwise it the words

"Good Luck"

```

#include<iostream>
using namespace std;
int main()
{
double GPA;
int year;    //holds 1,2,3,4 for Freshman, Sophomore, etc.

//use cin to input the GPA and the year
cin >> GPA >> year;

//use an if statement to print out appropriate message

if (GPA > 3.0 && year == 4)
    cout << "Congratulations";
else
    cout << "Good Luck";

}

```

### 4. Give the truth value of the following:

Assume num = 17 and value = 80

value % num != 12 || value - num \* 2 > 50

|               |  |                  |
|---------------|--|------------------|
| 80 % 17 != 12 |  | 80 - 17 * 2 > 50 |
| 12 != 12      |  | 80 - 34 > 50     |
| F             |  | 46 > 50          |
|               |  | F                |

False OR False gives **False**

5.

Give the truth value of:

|                   |  |            |    |            |
|-------------------|--|------------|----|------------|
| 7 / 7 + 14.3 > 15 |  | 6 == 3 * 2 | && | 7/1 == 1/7 |
| 1 + 14.3 > 15     |  |            |    |            |
| 15.3 > 15         |  | 6 == 6     | && | 7 == 1.4   |

and is done before or so:

|   |  |   |    |   |
|---|--|---|----|---|
| T |  | T | && | F |
| T |  |   | F  |   |

True OR False give **True**