

Worksheet 1

Enter each of the following programs. Try to anticipate what the output will be. Then execute them and compare your output expectations with what are really displayed.

1.1 The following program finds the area of a circle with given radius.

```
/* This program calculates and prints the area
   of a circle with given radius. */

#include <stdio.h>
#define Pi 3.1415926535
#define r1 2.0
#define r2 5.5

int main (void)
{

    float Area;

    printf ("\nWelcome, This program finds the ");
    printf ("area of a circle\n\n");

    Area = Pi * r1 * r1;
    printf("For a circle with radius %f, the area is %f\n\n", r1, Area);

    Area = Pi * r2 * r2;
    printf("For a circle with radius %f, the area is %f\n\n", r2, Area);

    return 0;

}
```

Sample running: