**1.**

/\* This program uses a nested loop and named constants to produce 6 rows of P.

Each row decrements the number of P’s by one. The first row has eight P’s . \*/

// Written by: Sam Graham

// Date: 10/9/2018

#include <stdio.h>

int main(void)

{

const int ROWS = 6;

const int CHARS = 8;

for (int row = 0; row < ROWS; row++)

{

for (int i = 0; (i + row) < CHARS; i++)

{

printf("P");

}

printf("\n");

}

return 0;

}

(Next Page)

**2.**

/\* This program accepts two doubles from the user

then displays the value of the first input divided by the second input.

If the user tries to divide by zero it will return an answer of -1.0. \*/

// Written By: Sam Graham

// Date: 10/9/2018

#include <stdio.h>

double divomatic(double a, double b)

{

double result;

if (b == 0)

result = -1.0;

else

result = a / b;

return result;

}

int main(void)

{

double input1;

double input2;

printf("Please enter the number you would like divided: ");

scanf("%lf", &input1);

printf("Please enter what you would like to divide by: ");

scanf("%lf", &input2);

printf("%lf", divomatic(input1, input2));

return 0;

}

**Output:**

Please enter the number you would like divided: 37

Please enter what you would like to divide by: 7

5.285714