2.1 Calculator

Write a program that asks the user to enter two numbers, obtains them

from the user and prints their sum, product, difference, quotient and

remainder.

2.2 Cost Price Problem

Suppose, a user enters the total selling price of 15 items and the profit

earned on the total. Write a program to find out the cost price of one

item.

2.3 Separating Digits in an Integer

Write a program that inputs one five-digit number, separates the

number into its individual digits and prints the digits separated from

one another by three spaces each. [Hint: Use combinations of integer

division and the remainder operation.] For example, if the user types

in 42139, the program should print

Output: 4 2 1 3 9

2.4 Shapes with Asterisks

Write a program that prints the following shapes with asterisks.

2.5 Diameter, Circumference and Area of a Circle Write a program

that reads in the radius of a circle and prints the circle’s

diameter, circumference and area. Use the constant value

3.14159 for π.  
  
  
  
  
code:

// *#include <stdio.h>*

// *void main(){*

// *int a,b,c,d,e;*

// *printf("Enter number a: ");*

// *scanf("%d", &a);*

// *printf("Enter number b: ");*

// *scanf("%d", &b);*

//

// *printf("\nThe sum of a and b is: %d", a+b);*

// *printf("\nThe difference of a and b is: %d", a-b);*

// *printf("\nThe product of a and b is: %d", a\*b);*

// *printf("\nThe quotient of a and b is: %d", a/b);*

// *printf("\nThe remainder of a and b is: %d", a%b);*

// *}*

// *#include <stdio.h>*

// *void main() {*

// *int a[15],b[15],c;*

//

// *for (int i = 0; i<15; i++) {*

// *printf("Enter item number %d's price: ", i);*

// *scanf("%d",&a[i]);*

// *printf("The profit gained for item number %d is: ", i);*

// *scanf("%d", &b[i]);*

// *}*

// *for (int i = 0; i<15; i++) {*

// *printf("The cost price of item number %d is: %d\n", i, b[i] - a[i]);*

// *}*

// *}*

// *#include <stdio.h>*

// *void main() {*

// *int a;*

// *printf("Enter a 5 digit number: ");*

// *scanf("%d", &a);*

//

// *int b = a/10000;*

// *int c = (a%10000)/1000;*

// *int d = (a%1000)/100;*

// *int e = (a%100)/10;*

// *int f = a%10;*

//

// *printf("the number is: %d %d %d %d %d", b,c,d,e,f);*

// *}*

// *#include <stdio.h>*

// *void main() {*

// *printf("Making a rectangle with aestricks\n");*

// *int a,b;*

// *printf("Enter the number of aestricks in the length of the rectangle: ");*

// *scanf("%d", &a);*

// *printf("Enter the number of aestricks in the breadth of the rectangle: ");*

// *scanf("%d", &b);*

// *printf("making a hollow rectangle\n");*

// *for (int i = 0; i < a; i++) {*

// *for (int j = 0; j < b; j++) {*

// *if (i == 0 || i == a-1 || j == 0 || j == b-1) {*

// *printf("\* ");*

// *} else {*

// *printf("  ");*

// *}*

// *}*

// *printf("\n");*

// *}*

// *}*

#*include* <stdio.h>

void *main*(){

    int a;

*printf*("Making a hollow diamond: \n");

*printf*("Enter the number of asterisks in the length of the diamond: ");

*scanf*("%d", &a);

*for* (int i = 0; i < a; i++) {

*for* (int j = 0; j < a; j++) {

*if* (i+j == a/2 || j-i == a/2 || i-j == a/2 || i+j == a + a/2 - 1 || i+j == a/2 + a - 1 || i-j == a/2 + a - 1) {

*printf*("\* ");

            } *else* {

*printf*("  ");

            }

        }

*printf*("\n");

    }

}

Output:









