

The **input** function has no parameters and returns an integer value from the standard input device (usually the keyboard). The **output** function takes one integer parameter, whose value it prints to the standard output (usually the screen), together with a newline.

### A.3 SAMPLE PROGRAMS IN C—

The following is a program that inputs two integers, computes their greatest common divisor, and prints it:

```
/* A program to perform Euclid's
   Algorithm to compute gcd. */

int gcd (int u, int v)
{ if (v == 0) return u ;
  else return gcd(v,u-u/v*v);
  /* u-u/v*v == u mod v */
}

void main(void)
{ int x; int y;
  x = input(); y = input();
  output(gcd(x,y));
}
```

The following is a program that inputs a list of 10 integers, sorts them by selection sort, and outputs them again:

```
/* A program to perform selection sort on a 10
   element array. */

int x[10];

int minloc ( int a[], int low, int high )
{ int i; int x; int k;
  k = low;
  x = a[low];
  i = low + 1;
  while (i < high)
  { if (a[i] < x)
    { x = a[i];
      k = i; }
    i = i + 1;
  }
  return k;
}
```