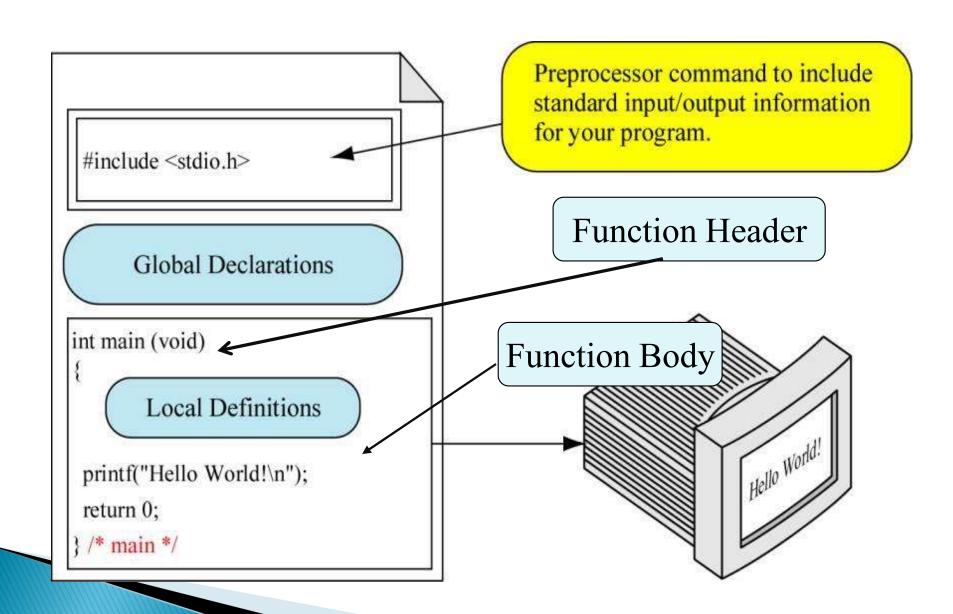
Review C Language

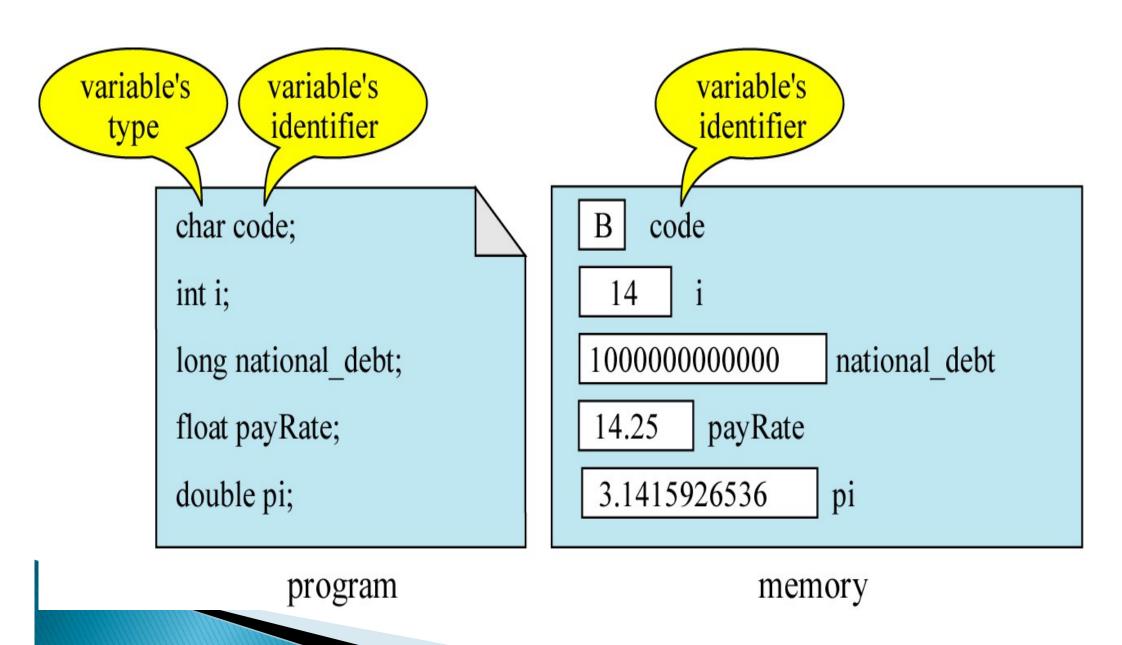
C Program structure



Identifiers Declarations

- An identifier must consist only of letters, digits, and underscores.
- An identifier cannot begin with a digit.
- A C reserved word cannot be used as an identifier.
- A standard identifier should not be redefined.
- C compilers are case sensitive. (Rate, rate and RATE are viewed as different identifiers)
- Valid identifiers: letter1, inches, KM PER MILE
- Invalid identifiers: 1letter, Happy*trout, return

Giving a Value to a Variable



Output Function

SYNTAX

```
printf( format string , print list ) ;
Printf(format string);
```

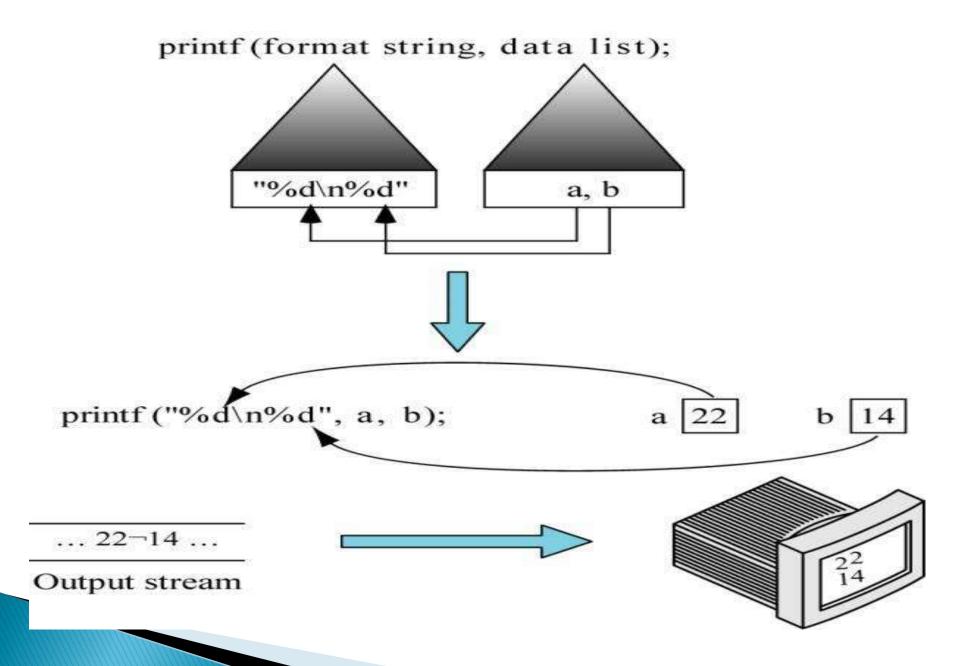
Examples:

Place holder

```
printf("That equals %f kilometers. \n", kms); printf("enter the distance in miles> "); printf( "Hello, World?\n");
```

Escape sequence

Output Function



Input Function

SYNTAX

```
scanf( format string , input list );
```

Examples:

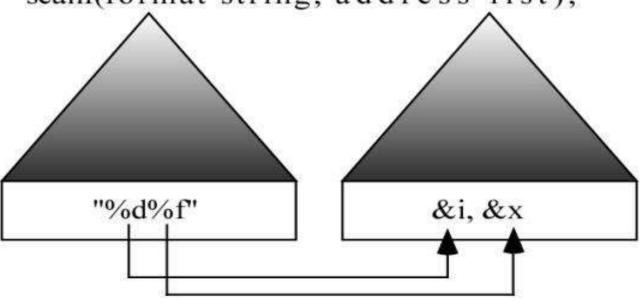
Place holder

scanf("%lf", &miles);

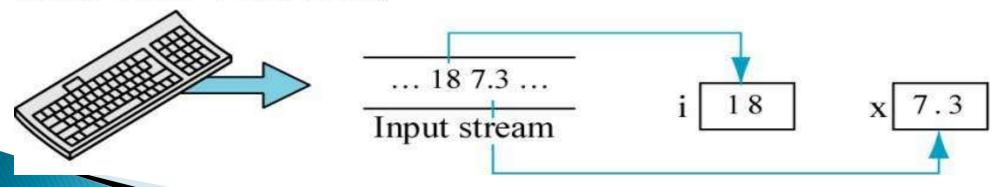
Ampersand

Input Function

scanf(format string, address list);



scanf("%d%f", &i, &x);



Programming Examples: Example-1

Write a program to ask the user for the width and length of a piece of land and then tell him how many orange trees he can grow on it. Given that each orange tree requires 4 m².

Programming Examples

return(0);

```
#include <stdio.h>
# define one_tree_space 4
int main()
 int length, width, area, no_of_tree;
 printf("Enter length of the land>");
 scanf("%d", &length);
 printf("Enter width of the land>");
 scanf("%d", &width);
 area = length * width;
 no_of_tree = area / one_tree_space;
 printf("The available number of trees is %d
 trees\n", no_of_tree);
```