



SNS COLLEGE OF TECHNOLOGY Coimbatore-35 An Autonomous Institution

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PROGRAMMING FOR PROBLEM SOLVING

I YEAR

UNIT 2 – C PROGRAMMING BASICS
DECLARING & INITIALIZING VARIABLES

Variables:

- Variables are named memory locations that have a type, such as integer or character, which is inherited from their type.
- The type determines the values that a variable may contain and the operations that may be used with its values.
- To declare a variable specify data type of the variable followed by its name. Variable declaration always ends with a semicolon
- Variable names should always be meaningful and must reflect the purpose of their usage in the program.

Variable Declaration

```
Synatax: Type var_name;
Ex: int emp_num;
    float alary;
    char grade;
    double balance_ amount;
    unsigned short int acc_no;
```

Variable Initialization

- When a variable is defined, it contains unknown value.
 Thevariable has to be initialized with a known value
- If a variable is not initialized, the value of variable may be either 0 or garbage depending on the storage class of the variable.
- We must initialize any variable with known data before

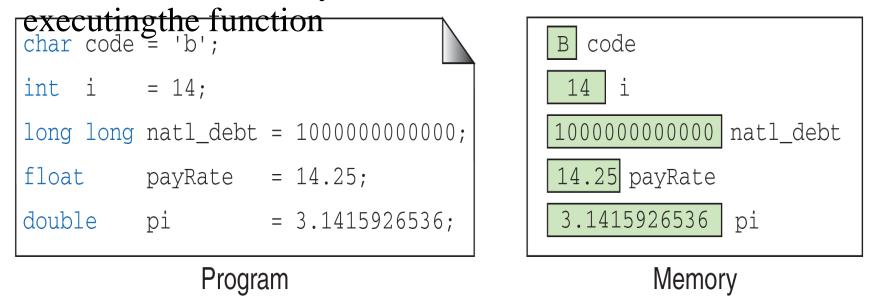


Fig: Variable Initialization

THANK YOU