

# United International University (UIU)

## Dept. of Computer Science & Engineering (CSE)

### ASSIGNMENT 2

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We will build a symbol-table in this assignment. At this initial stage, we will omit many details regarding an actual symbol-table and we will simply adhere to the basic concept that “a symbol-table is an efficient data-dictionary for the symbols used in a program”. Thus, our focus in this assignment is to construct a simple hash-based data-dictionary based on chaining.

#### Table Structure:

Serial	Name	Type	Value
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#### Input 1:

int a;

#### Table View:

1	a	int	NULL
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#### Input 2:

float amount=2.25;

#### Table View:

2	amount	float	2.25
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#### Input 3:

double sum1,sum2;

#### Table View:

3	sum1	double	NULL
4	sum2	double	NULL

#### Input 4:

int a=5,c=4;

#### Table View:

5	a	int	5
6	c	int	4

#### Task:

1. Take input statements one at a time.
2. Identify and extract information from a specific statement.

3. Distribute these information all over the symbol table in specific row and column
4. Fetch, remove, and replace information from the symbol table.

**Menu:**

1. Insert
2. Find
3. Delete
4. Show Specific
5. Show All
6. Update

**PLEASE NOTE:**

**1st Week = Understanding | 2<sup>nd</sup> Week = Final Submission**