**COMPILER DESIGING LAB REPORT**

**SYMBOL TABLE**

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**Datatypes:**

**This Symbol table contains the 5 types of data types integers, float, characters, arrays and structure.**

**Integers:**

**It is represented by using ‘int’ keyword. 2 bytes are used to store the integer datatype. The name of the identifier is stored with the type.**

**Float:**

**It is represented by using ‘float’ keyword. 4 bytes are used to store the decimal datatype. The name of the identifier is stored with the type.**

**Character:**

**It is represented by using ‘char’ keyword. 1 bytes are used to store the character datatype. The name of the identifier is stored with the type.**

**Arrays:**

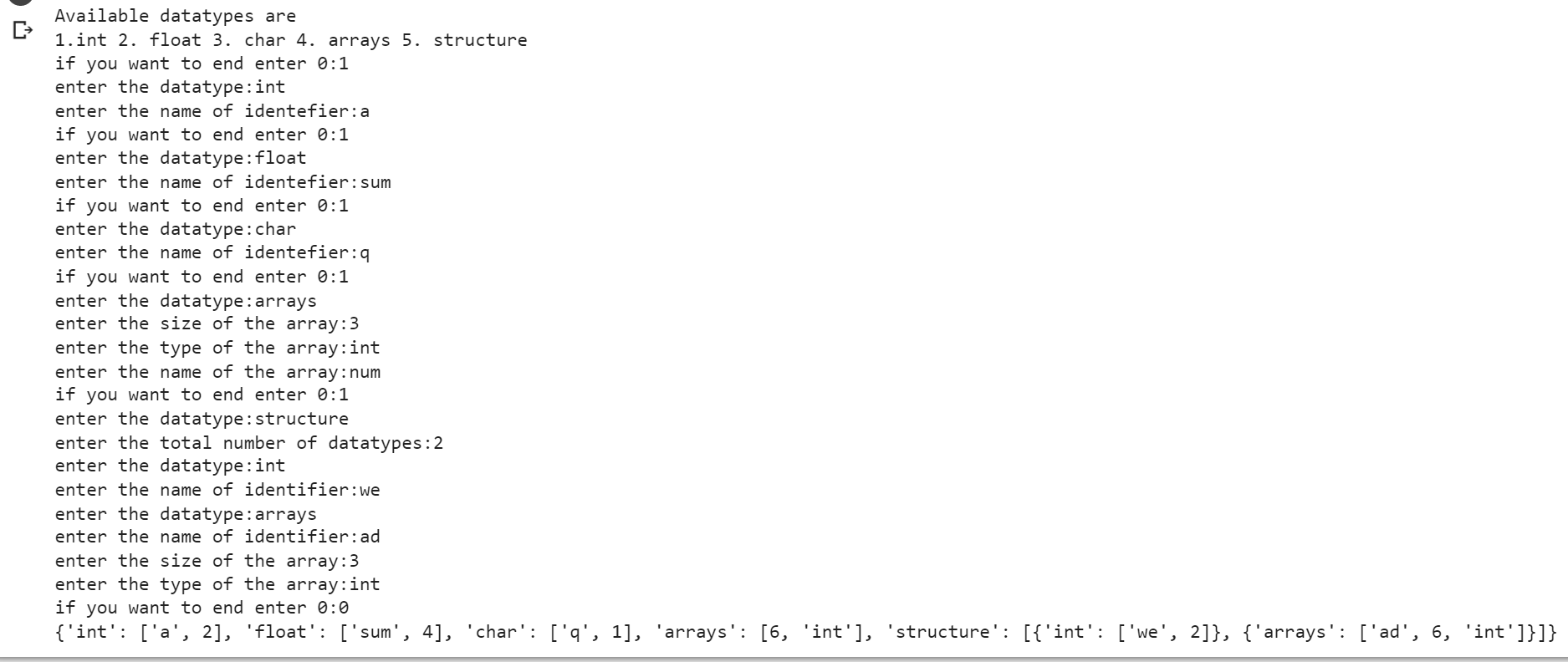
**It is represented by using ‘arrays’ keyword. Arrays are further divided into the integer array whose size is equal total size of array\*2, character array whose size is equals to total size of array\*1 and float array whose size is equals to total size of the array\*4.**

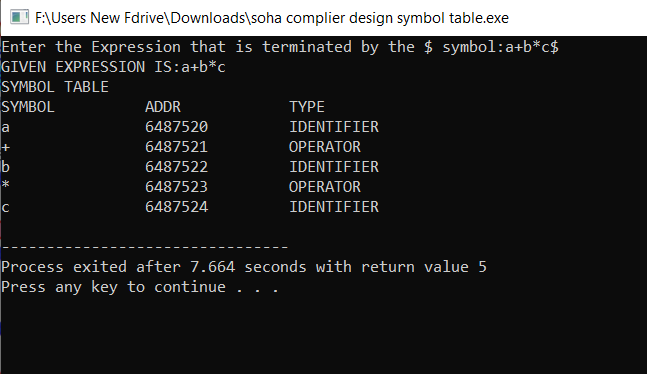
**Structure:**

**It is a user defined data typethat contains integer data type, character datatype float and arrays.**

**Tech stack:  
This symbol table is constructed using c language and python. In python I have used lists and dictionaries to store and retrieve the data. In c language t I have used arrays and conditional statements.**

**Out Put:**

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