**Q No. 1:** Write a C++ program that will multiply two 2D arrays elements. Take values from user at runtime. Note display values of 1st, 2nd and their resultant array.

**Hints**: A will be the 1st array, B will be the 2nd array and C will be resultant array.

Note: Follow Mathematics Matrix Multiplication Rules

Output should be like that:

Enter values for array initialization

a[0][0] =3

b[0][0] =4

a[0][1] =5

b[0][1] =34

a[0][2] =3

b[0][2] =5

a[1][0] =6

b[1][0] =7

a[1][1] =7

b[1][1] =7

a[1][2] =7

b[1][2] =6

a[2][0] =4

b[2][0] =9

a[2][1] =7

b[2][1] =5

a[2][2] =3

b[2][2] =5

Values of Array a

3 5 3

6 7 7

4 7 3

Values of Array b

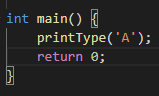
4 34 5

7 7 6

9 5 5

Values of Array c (Resultant array) after multiplication of Array a and b

**Q No.02:** Write a program that check the type of the value and determine the data type of the value. In this program, you will develop a Type checking program (Type Checker).



If the argument of printType(true) is true or false, it will invoke a function inside and print a message “true is a boolean”. If it is int 463287462 then it should display “4632874 is Integer”. The sample output format is as follows:

**1.24353 is double data type**

**334345345 is an integer data type**

**1 is boolean data type**

**A is a character data type**