// C# Program to create a Hash

// Function for String data

using System;

class Geeks {

// Main Method

public static void Main(String []args)

{

// Declaring the an string array

string[] values = new string[50];

string str;

// Values of the keys stored

string[] keys = new string[] {"Alphabets",

"Roman", "Numbers", "Alphanumeric",

"Tallypoints"};

int hashCode;

for (int k = 0; k < 5; k++) {

str = keys[k];

// calling HashFunction

hashCode = HashFunction(str, values);

// Storing keys at their hashcode's index

values[hashCode] = str;

}

// Displaying Hashcodes along with key values

for (int k = 0; k < (values.GetUpperBound(0)); k++) {

if (values[k] != null)

Console.WriteLine(k + " " + values[k]);

}

}

// Defining the hash function

static int HashFunction(string s, string[] array)

{

int total = 0;

char[] c;

c = s.ToCharArray();

// Summing up all the ASCII values

// of each alphabet in the string

for (int k = 0; k <= c.GetUpperBound(0); k++)

total += (int)c[k];

return total % array.GetUpperBound(0);

}

}