## CODE:

```
package com.company;
import java.io.*;
import java.text.DecimalFormat;
import java.util.Hashtable;
import java.io.FileNotFoundException;
import java.util.LinkedHashMap;
import java.util.Map;
import java.util.Scanner;
public class Main {
  public static void main(String[] args) {
       int LC = 0, SC = 0;
       Hashtable<String, String> IS=new Hashtable<String, String>();
       Hashtable<String,String> DL=new Hashtable<String,String>();
       Hashtable<String, String> AD=new Hashtable<String, String>();
       Hashtable<String, String> REG = new Hashtable<String,String>();
       LinkedHashMap<String, String> ST = new LinkedHashMap<String, String>();
       String arr[] =
{"STOP", "ADD", "SUB", "MULT", "MOVER", "MOVEM", "COMP", "BC", "DIV", "READ", "PRINT"};
       String arr1[] = {"DC", "DS"};
       String arr2[] = {"START", "END", "ORIGIN", "EQU", "LTORG"};
       String arr3[] = {"AREG", "BREG", "CREG", "DREG"};
       boolean st found = false;
       boolean ds found = false;
       boolean dc found = false;
       boolean code start = true;
       String st, start = "START", ds = "DS", dc = "DC";
       for(int i=0;i<=10;i++){
           DecimalFormat twodigits = new DecimalFormat("00");
           IS.put(arr[i], twodigits.format(i));
       }
       for(int i=0;i<=1;i++) {
           DecimalFormat twodigits = new DecimalFormat("00");
           DL.put(arr1[i],String.valueOf(twodigits.format(i+1)));
       }
       for(int i=0;i<=4;i++){
           DecimalFormat twodigits = new DecimalFormat("00");
           AD.put(arr2[i], String.valueOf(twodigits.format(i+1)));
```