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Class: TE Computer

Batch: T4

Assignment no. 4(Macro pass 2)

```
Code:
import java.util.*;
import java.io.*;
public class macro2
     public static void main(String args[])
          BufferedReader br, br1, br2;
          OutputStream oo;
          String input=null,input1=null;
          String tt=null;
          String arg=null;
          String macroTokens=null;
          int macroindex[]=new int[10];
          String mnt[]=new String[10];
          int mcount=0,arg_count=0;
         int middlecount=0;
         int index=1;
         int main_enc=0;
         try
              br=new BufferedReader(new FileReader("Input.txt"));
              br1=new BufferedReader(new FileReader("mnt.txt"));
              br2=new BufferedReader(new FileReader("mdt.txt"));
              File f = new File("final output.txt");
              PrintWriter p = new PrintWriter(f);
              int ii=0:
              while((input = br1.readLine())!=null)
                    StringTokenizer st = new StringTokenizer(input,"\t");
                   tt=st.nextToken();
                   mnt[ii]=tt;
                   System.out.println(mnt[ii]);
                   ii++;
              while ((input = br.readLine()) != null)
              StringTokenizer st = new StringTokenizer(input," ");
               tt=st.nextToken();
```

```
main_enc=1;
                        p.print("START");
                        tt=st.nextToken();
                        p.println(tt);
                 }
                 else
                 {
                            if(main enc==1)
                            if(input.equals("END"))
                            {
                                  main_enc=0;
                                  p.println("END");
                            else
                            {
                                  StringTokenizer t=new StringTokenizer(input," ");
                                  //System.out.println(input);
                                  while(t.hasMoreTokens())
                                     macroTokens=t.nextToken();
                                     for(int i=0;i<ii;i++)
                                         if(macroTokens.equals(mnt[i]))
                                         int ff=0;
                                         //System.out.println("match");
                                                while((input1 = br2.readLine())!=null)
                                                               if(input1.equals(mnt[i]))
                                                               {
ff=1;//System.out.println("match");
                                                                      continue;
                                                               }
                                                               if(input1.equals("MEND"))
                                                                      ff=0;
                                                               if(ff==1)
                                                                      p.println(input1);
                                                       }
                                         }
```

if(tt.equals("START"))

```
}
                                      if(!(t.hasMoreTokens()) &&
   Arrays.asList(mnt).contains(macroTokens))(
                                          //p.println(macroTokens);
                                      else if(!(t.hasMoreTokens())){
                                         p.println(macroTokens);
                                         }
                                      else
                                                if
  (Arrays.asList(mnt).contains(macroTokens))
                                                      {System.out.println("hi");}
                                                else
                                                      p.print(macroTokens+" ");
                                     }
                                  }
                            }
                         }
                     index++;
                p.close();
           catch(Exception e)
               e.printStackTrace();
     }
}
Output:
INCR1
INCR2
Final_output.txt
START 100
MOV AREG A
MOV BREG B
ADD AREG AR0
LDA BREG AR1
MOV CREG =2
```

MOV DREG =3

ADD AREG BREG A DC 05 B DS 03 END

