**import** java.util.HashMap;

**public** **class** countWordsMap {

HashMap<String, Integer> map = **new** HashMap<String, Integer>();

**static** String *filename* = "C:\\Users\\Karen Goh Seow Hui\\ELunar\\Assignment1\\src\\confucius.txt";

**public** **void** WordCount(String filename){

FileResource resource = **new** FileResource(filename);

// HashMap<String, Integer> map = new HashMap<String, Integer>();

**for**(String s : resource.words()){

s = s.toLowerCase();

**if**( !map.containsKey(s)){

map.put(s, 1);

}

**else** {

map.put(s, map.get(s)+1);

}

}

}

**public** **void** printWords() {

**for**(String s : map.keySet()){

System.***out***.println(map.get(s) + "\t" + s);

}

}

**public** **static** **void** main(String[] args) {

countWordsMap wm = **new** countWordsMap();

//wm.findUnique("C:\\Users\\Karen Goh Seow Hui\\ELunar\\Assignment1\\src\\confucius.txt");

wm.WordCount(*filename*);

wm.printWords();

}

}

Output:

1 hail

4 clothes

1 mended?

2 dangerous.

1 carries

1 rank,

2 rank.

1 murdered,

1 mended.

1 file,

**import** java.util.HashMap;

**public** **class** countWordsMap {

HashMap<String, Integer> map = **new** HashMap<String, Integer>();

**static** String *filename* = "C:\\Users\\Karen Goh Seow Hui\\ELunar\\Assignment1\\src\\confucius.txt";

**public** **void** WordCount(String filename){

FileResource resource = **new** FileResource(filename);

// HashMap<String, Integer> map = new HashMap<String, Integer>();

**for**(String s : resource.words()){

s = s.toLowerCase();

**if**( !map.containsKey(s)){

map.put(s, 1);

}

**else** {

map.put(s, map.get(s)+1);

}

}

}

**public** **void** printWords() {

**int** total = 0;

**int** occurence = 0;

**for**(String s : map.keySet()){

occurence = map.get(s);

System.***out***.println(occurence + "\t" + s);

}

total += occurence;

System.***out***.println("total count : " + map.keySet().size());

}

**public** **static** **void** main(String[] args) {

countWordsMap wm = **new** countWordsMap();

//wm.findUnique("C:\\Users\\Karen Goh Seow Hui\\ELunar\\Assignment1\\src\\confucius.txt");

wm.WordCount(*filename*);

wm.printWords();

}

}

Output :

2 half

1 supplant

1 carved,

1 favour.

1 hall

1 han.

1 warranty,

1 baseness,

1 guards

1 favour,

2 wreck

3 pick

8 ten

5 daring

1 back.'

9 "

1 corn,

1 blameless;

25 \*

1 require

2 +

7 -

2 1

1 poems

5 (reigned

2 3

1 4

2 6

1 rounded

2 drums

14 =

4 throne,

1 telling

1 pglaf),

2 hang

6 throne.

1 glade

3 fearless

1 hsi,[111]

7 turn

11 same

1 pig.

1 harsh?

2 pien

28 after

1 ]

5 hand

1 daring?

710 a

2 cultured.

1 salt

305 i

1 time,

3 eating

1 data,

1 square.

1 o

2121 the

7 straight

1 halt

1 \_fang-shu\_,

1 daring,

2 v

1 han;

2 x

7 information

1 100:

1 prefixed.

36 thy

1 off?

1 trust;

62 good

8 faithful

1 provide,

1 cultured?

1 gutenberg-tm,

1 gains.

1 gutenberg-tm.

1 harmony,

2 courage,

2 copying

1 courage.

1 \_shen\_,

1 cultured;

1 business.

1 101:

1 business,

1 off:

50 chi

1 courage;

13 §

1 unchecked

4 off,

1 off.

1 102:

1 huan's

1 sand

2 sang

1 walked

1 owed

2 aside

2 ·

3 glad.

1 chung,[130]

1 trust.

1 glad,

1 trust,

1 sank

6 harm

1 reports,

2 earth,

1 displeased

4 provided

1 wo[61]

1 hart

1 \_ch'ü

1 103:

1 has?

3 root

20 hard

1 has,

1 plotting

1 hsiang,

1 k'ung.

1 room

1 \_shih-shu\_,

21 better

1 104:

1 has!

1 omens,

1 honest.

2 pupils

2 honest,

2 breadth

7 to,

1 to.

1 105:

1 honest;

2 uprightness

3 gained

4 and,

1 short.

14 hate

1 22.)]

3 short,

6 flow

5 order

2 to;

4 hast

1 106:

1 hash

4 co.

1 save

1 neglected;

22 tzu-chang

1 frankly

1 hypertext

13 too

1 107:

1 surname

1 failings,

108 have

7 famous

185 [footnote

1 question

1 additions

1 poetry\_,

2 intellectual

1 poetry\_.

2 trusts

1 108:

3 rose

10 thousand

1 huan.]

1 say?

2 thyself;

1 cow

2 shrines

4 lieges

1 gown

13 say,

1 time.

2 say.

1 109:

1 pei\_,

1 time:

2 owns

1 say:

1 time;

1 graced

8 including

1 enquiries

1 row,

1 20%

21 20,

15 20.

1 production,

1 mounting

1 dancers[23]

1 pupil,

1 try

1 20:

1 fierce?

6 became

1 yü-chung

1 fierce;

3 liege,

1 unenforceability

3 end.]

1 hsien[128]

13 21,

15 21.

1 tso

6 times

1 211

1 213

1 served.

1 21:

56 says

1 whence

1 cry

2 rows

21 22,

15 22.

1 221

1 fierce.

1 stable

1 cord.

1 lads,

1 sitting.

1 impatience

1 22:

1 clearly;

1 22;

1 faith,

1 pity

16 23,

14 23.

4 \_yen

1 defines

1 shun[2]

1 beautiful

2 friends.

1 pith

1 23:

6 friends,

30 state

1 dissecting

1 poems,

11 24,

14 24.

2 service.

1 needed?

4 offering

2 24:

4 creating

20 \_see\_

1 cup

2 cut

5 probably

1 prince's

10 25,

12 25.

1 untrue

1 weighed

10 two

1 moment

1 thin;

1 show.

2 attack

1 25:

1 reported

6 distribute

2 fellow,

1 kitchen

1 prevented

1 creation

14 think

1 burdens,

1 friends?

5 26,

10 26.

4 team

1 services

2 friends;

3 watch

1 k'ai

6 speech

1 26:

1 unmentioned

2 ts'ui,'

4 thing

3 thine

1 shop;

1 won't

1 27,

2 cheerful.

7 27.

1 star,

1 note),

3 dying

2 paying

1 27:

1 donation

1 meals,

2 eastern

1 another;

6 28,

6 28.

1 ch'iu.[110]

1 tzu

7 ancestral

1 28:

1 desire;

1 before.

1 hall;

5 29.

2 concept

6 k'ang

3 banish

20 house

1 consistent,

1 before;

1 29:

1 start:

1 widens

1 \_kung-ming

2 start

1 tumults.

1 stars

1 direct,

1 shorn

2 fallen

3 hall,

1 shot,

3 short

3 brothers.

2 brothers,

1 measured

1 rewarding

1 abreast

2 listless

1 furs.

1 hsi;

2 required

2 measures

1 coats

1 offering,

4 golden

3 \_chao\_,

3 enter

2 attain

3 hsi,

1 shooting,

1 warmth

4 destroy

1 wretch

1 dates

1 chi[29]

1 quilted

1 doings

3 withstands

2 shooting?

1 worn-out

2 sorrows

1 solemn.

1 train.

1 \_chü-fu\_,

4 hsin

1 redistribute

2 bright

1 truth.

7 truth,

3 unknown

6 hsia

1 keep,

1 \_ch'üeh\_,

1 knight[166]

1 doing?

2 truth?

2 moreover,

5 manners

1 truth;

2 kings.

1 survive

1 doing.

1 shore,

1 colour;

1 sorrow.

1 kings'

1 sorrow,

1 cling

6 many,

2 many.

1 smooth,

1 manner,

6 tell

3 introduction.]

1 ten;

1 \_ch'i-tiao

1 any)

1 sake;

1 many;

6 shows

11 day

7 keeps

4 drinking

2 created

1 vexation;

4 format

1 stays

1 mien,

1 entertain

1 condemns

4 this.

1 torrent.

1 critical

1 winningly

9 this,

1 daughter,

2 introduction

1 daughter.

1 date:

1 built

1 subscribe

1 paltry

2 tan-t'ai

1 yu\_:

1 warms;

1 smooth;

2 yu\_,

1 this?

1 tzu-kao;

3 third

1 hui[165]

1 pity,

3 further

1 viewing,

1 dearest

1 chung,

4 chung.

2 enough?

4 finds

1 enough;

1 sheep,

2 fawning.

1 blossom,

5 going

1 \_tung\_.)

2 beautiful,

1 s/he

1 hirth

1 whipped

1 1105

1 chung!

1 110:

1 exalts

1 treatment

2 compare

1 late?

1 waited

1 fawn,

3 foot.

1 'shall'

2 grass

6 unlike

1 beautiful:

1 find.

1 111:

2 learn,

5 enough,

1 learn.

10 enough.

5 business

1 withdrawing

1 staff

17 right

2 liability,

1 learn?

7 taught

1 grumble

1 636-28

1 maximum

14 under

1 desert

58 did

1 learn;

1 112:

10 die

1 dim

1 believing

2 fears

1 ssu.

1 113:

6 later

1 1135

1 3).

1 forgotten

1 touch:

1 seasons

2 finally

3 learns

1 remained

1 \_ta-hsiang\_,

1 allotted,

1 shantung.

1 114:

1 wo\_,

1 puzzled

2 final

4 learnt

2 occasion

1 fear?

1 fear:

11 back

1 arraign

1 training

1 ch'ih?[42]

12 states

1 115:

1 ignore

1 company

2 evil.

2 evil,

2 craig,

2 bad,

3 grand

4 up,

2 up.

1 116:

2 blossoms

1 bad;

2 season.

1 season,

1 showing

12 do,

1 newsletter

9 do.

2 (+

1 armies

3 up?

1 helping

1 silence,

2 messenger,

1 underlings

1 clan's

1 thick

1 mound,

2 do;

1 worthier

4 know.

1 117:

7 do?

8 know,

18 b.c.

1 pitch

3 text

4 kindness

1 'i

1 flattening

33 made

1 hoeing

13 being

1 bade

2 coming,

1 fear,

2 fear.

1 dull;

2 contents

1 118:

1 kao-tsung

1 \_i\_,

1 fear!

1 dog

4 status

1 nobility

1 f3.

1 thief

1 scattered

5 us,

1 \_shih-men\_,

1 us.

1 fewer,

1 government

1 shen[101]

7 known

1 like.

1 yü's[160]

1 like,

1 119:

7 stand

2 us;

17 knows

2 dr.

1 palm.

2 forward

1 unseen.

1 lacks

1 success;

2 zealous

1 30,

6 30.

9 ebook

1 lawsuits

2 widest

1 jung\_,

1 warlike

2 success,

1 30:

1 three?

1 knight,[177]

15 use

1 subject

6 works,

2 main

3 liked

1 31,

5 works.

3 31.

1 revenue

1 straightness,

2 liken

1 straightness.

5 grain

1 31:

1 credit

1 likes

2 waste

1 three!

1 2205-2197

1 daybreak

2 bearing

1 burnt,

1 includes

3 weights

1 homesteads

3 32.

1 three.

1 pi-kan[164]

1 32:

1 playing,

1 three;

2 dull,

4 clan.]

1 blindly

1 33,

3 33.

2 uncommon

1 gbnewby@pglaf.org

1 33:

2 included

2 fulfil

29 make

1 opposed

1 gregory

1 thorough,

1 questioned

3 34,

2 yung

3 34.

1 ch'iu-ming

1 stake

1 understanding;

1 witness

1 reprinted

3 due

1 thorough;

1 information:

1 34:

1 looking.

1 dullard;

1 cut.

1 cut,

2 woke

3 dearth

7 sorrow

3 35.

3 trees

4 man;

1 dullard,

1 flourished

6 meaning

1 oppressed

2 man?

1 35:

1 bane

2 band

29 1,

24 1.

1 riddle,

1 prudent;

12 man,

1 12

1 13

3 singing

1 15

1 16

13 man.

7 wisdom?

1 lass,

2 1:

1 1;

3 36.

3 wisdom;

1 wisdom:

1 man!

1 highest

1 36:

25 2,

5 wisdom.

21 2.

3 wisdom,

1 20

1 k'ang[149]

1 21

1 22

1 friendship,

1 23

1 25

1 brightened.

2 friendship.

1 lone

1 2:

1 \_ch'ih\_,

1 37,

1 last,

1 \_shao-nan\_,

3 37.

17 long

1 research.

1 37:

1 charges.

19 3,

21 3.

2 30

1 36a

1 won?

1 white\_.[90]

1 64-6221541.

1 expression

1 39

2 'like

1 3:

4 38,

2 38.

15 many

1 small.

3 stay

2 won.

2 controlled

1 grumble?

1 38:

1 grumble;

1 increasing

18 4,

20 4.

12 treat

1 lasts

1 agent

1 tzu-kung[8]

2 4:

1 numbers

2 39.

4 seven

2 tread

1 39:

5 dynasty

17 5,

1 lyall.

20 5.

1 wood

1 50

1 53

1 faultless,

1 5:

1 blindness.

2 5;

1 invited

1 wont

2 higher,

13 look

1 party,

2 crushed

1 higher.

1 faultless;

2 untaught

1 wine.]

6 murdered

1 bashful,

27 6,

20 6.

1 60

1 eccentric

1 number,

1 \_kung-hsi

1 rebellion;

1 6:

1 taking.

1 lore

1 needed

42 lord

1 hui[170]

1 number;

1 admit

4 common

22 7,

19 7.

1 higher;

1 mask

1 7:

2 winning

1 apply

1 dullard!

2 brethren;

2 starved

18 8,

19 8.

3 rebellion.

1 ground,

1 ground.

3 step

1 mat.

1 mark

1 stem

1 mat,

1 88

1 8:

3 state?

2 state:

1 loth

2 state;

3 loss

28 9,

22 9.

1 empire;

11 lost

2 90

1 9:

1 9;

1 \_kung-yeh

43 work

2 lose

2 empire,

2 empire.

1 huan\_,

1 \_hu\_,

1 tzu-wen,

6 wore

13 word

78 love

1 two?

1 po-kuo,

1 "right

14 foundation

1 yourself,

4 across

1 two.

1 low;

1 two,

2 ear

6 eat

1 two;

1 low?

1 meng[175]

1 chuang,

1 low.

1 seest

5 state.

6 state,

1 devotion

1 exists

1 ch'iu[112]?

2 world;

1 cloud.

1 spell

1 seen;

2 vex

2 horses;

1 \_huan

1 provision

2 world,

1 thrust

1 (514-483

5 seems

3 world.

1 yea,

1 painstaking.

3 walking

1 horses.

1 decries

2 spend

3 horses,

1 unheeded

37 vi.

2 spent

1 yi[129]

1 dead!'

2 instead

1 \_liu-hsia

1 unlink

1 120:

1 knighthood?

2 hands

1 orphan;

1 morbid.

7 year

1 knighthood:

2 meng-sun,

1 allowed

1 strength....

1 \_tremble\_

1 orphan,

1 people!

2 vii

3 sixty,

4 empire

6 people,

1 (available

8 people.

10 near

1 dykes

1 121:

1 naught;

1 officers,

1 spoken!

1 1231

1 \_note\_),

1 version

7 stop

1 yi-yi

1 note.

1 122:

1 officers.

1 boston

1 least

1 immediately

1 ein

1 chüeh,

1 \_january,

2 boldness

2 flatterer;

1 fair;

1 agreed

1 computers

1 123:

19 learn

1 dignified.

1 humble,

2 kao-yao,

1 124:

3 judge.

1 sayest

3 hand.

1 hand,

3 instructions

3 notes

2 \_chou

1 round,

1 dancers

3 official

2 ts'ui

1 125:

1 ho-chi,

13 leave

1 unmoved

1 line.

1 po-niu\_,

1 needy,

3 line,

1 shouldered

1 \_tzu-wen\_,

36 minister

9 need

2 knowledge,

1 vexed

1 nightgown

1 kingcraft

1 glibness;

6 often

2 obtaining

1 126:

2 equipment.

1 \_chi-kua\_,

1 loose

2 vexes

1 extant--and

1 meaning!

3 1154-22

3 private

1 note:

1 gates

1 leopard's

1 unprincipled.

1 finish.

1 127:

1 tzu-chang[21]

3 ling,

3 linen

7 end

1 far-sighted.

3 lines

2 forty

4 wouldst

1 line;

1 9).]

3 people;

1 hiding.

2 hiding,

2 tzu-hsia's

1 special

1 contempt

2 people?

1 128:

1 index.

1 royalties

1 grave.

1 wanting

1 \_ch'ang-chü\_,

34 called

1 turns

7 right,

1 aspire

6 right.

1 129:

1 basket-bearer

1 tribes.

2 gate,

1 having,

2 gate.

1 brave

1 fail.

1 \_tzu\_

1 right:

2 right;

1 \_tzu-ch'an\_,

1 laws.

1 right?

1 shape

1 laws,

7 chou,

13 chou.

1 chou[171]

11 forth

1 thoroughness

2 40.

2 tzu-hsia.]

1 400

2 chou;

1 seventh

1 40:

1 541-10

1 tung-li.

2 done?

1 hu\_,

4 41,

2 41.

68 asked

3 done.

1 ere

2 share

1 climbed

4 kung-shu

1 41:

2 done,

4 thoroughly

1 lowliness

1 $5,000)

1 done!

1 donations.

1 stubbornness.

1 42,

2 sharp

1 42.

1 longing;

1 elders,

1 book[20]

1 elders.

1 career.

3 \_jan

1 author:

1 42:

1 throne.]

1 fretting.

1 fearless,

1 ends?

1 indemnity

2 screen

2 hua,

2 hua.

2 43,

1 43.

1 dream.

2 437

1 carousing,

1 doctrines

3 links

1 43:

34 below

1 overawed

1 woods

1 remedies

1 humbled,

1 estate

34 shall

1 44.

2 driving

1 yen,

5 followers

1 tribe

1 44:

1 t'ui\_,

1 huo[151]

5 shame

1 spoken?

1 overdone

1 financial

1 turn.

21 huan

3 45,

1 shao,

1 45.

1 disorder,

1 exalt

1 eve

1 spoken.

1 secrecy.

4 chose

1 45:

1 obscurity.

1 hundred.

1 hui![58]

5 shang

1 treasury.

1 well-cleaned

1 untold.

1 \_po-yi\_,

1 46,

1 untold;

1 46.

1 funeral;

3 complying

1 46:

2 tz'u

2 same,

1 47,

2 same.

1 47.

1 20).]

1 net;

1 broken,

1 refrained,

1 centre.

2 479

1 47:

1 centre,

1 same;

1 seated,

6 yes,

1 shoots

1 \_shih:\_

1 \_tseng-tzu\_

1 remain

4 cheng,

1 countries

2 480

3 481

1 483

2 eye

1 484

14 himself

1 borders.]

1 48:

1 tongue-tied

1 pien;

10 another

1 'i.'

1 stammering

2 491

2 lives,

1 495

2 497

1 envoy

1 49:

1 skill;

1 t'ang's

1 you!)

1 indemnify

1 lives;

6 ch'iu,

2 black

1 26),

26 such

1 lead,

1 lead.

1 argue.

1 servant;

1 hui,

1 dwelt

2 dwell

4 bandmaster

1 seeming

24 might

5 full-grown

1 sharing

1 servants

3 leads

1 ch'in,

2 ch'in.

9 next

1 occur:

1 originator

1 silent,

1 conclusion

1 button

1 music-master.[140]

2 \_wen\_,

2 bidding;

1 ching,[119]

1 wealth?

4 trademark

1 wag

1 bidding?

1 undoing

1 derived

4 green

239 was

6 war

3 bidding,

2 bidding.

7 grew

59 way

2 \_yi\_,

1 hui?

1 summons

2 wealth,

3 play

1 quickly

1 attentive

1 pleases

1 synonymous

11 fan

1 instruments

1 master[35]

12 far

1 stuck

1 plan

1 k'ung-wen;

1 lowest

1 melan

1 difference?

1 prizes

1 side;

5 study

1 chi-lu,

2 please.

1 differences

2 look.

1 piety

2 look,

4 gain

1 k'ang[132]

1 receiving

6 web

1 sun,

7 wei

1 older

1 huo,

2 huo.

6 \_meng

16 wen

1 going.

1 user,

2 ching-po

1 alley;

46 great

1 entrusted

2 wanton

3 pleased

1 italian.

2 sides

1 fu-jao[154]

3 stuff

1 thrall

2 die,

1 jen\_,

2 13.]

8 fee

7 section

1 die?

7 looks

4 king's

1 presented

2 vassals.

11 few

2 did.

2 rain

1 \_po\_,

1 breath.

1 hangs

4 men's

2 sung

3 inner

5 produced

3 outside

2 forgets

1 130:

72 who

1 poetry\_--perhaps

1 game

1 transcriber's

1 crops,

1 faith

32 why

1 newby

2 founders

16 died

1 levies;

1 feudatories.

1 bombay

1 collection.

1 leech.'

1 lower,

1 looms

1 t'ai.[25]

1 dies

1 131:

1 win

2 asks,

1 cooked,

1 leap.

2 bewilder

3 a.

2 heir,

1 kung-sun

1 dig!

1 barriers

1 matters

1 couldst

2 various

1 \_t'ai-po\_,

2 visit

1 heir;

1 tzu-yüan;

1 132:

1 extent

1 tzu-chou;

1 'as-is'

1 b.

1 fir

8 fond

13 fit

1 fix

1 will;

2 honest

3 rank

1 yu,[95]

1 5).

1 133:

1 addition

1 strife.

2 will.

11 grow

4 sure

3 will,

1 death;

1 ancestor

4 ai

1 ching[74]

1 wandering.

And the list goes on……