IDP0123 - Principle of Programming Assignment Slip Result Generator

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L01 - Pre Korea

TABLE OF CONTENTS

Phase 1 Analyzing a Problem

Input	Process	Output
name id prog cwpchm fmpchm cwpop fmpop cwcla fmcla cwkl fmkl cwkc fmkc cwcl fmcl cwbd fmbd cwicc fmicc	Prompt for name Get name Prompt for id Get id Prompt for prog Get prog Prompt for all coursework mark Get all coursework mark Prompt for all final mark Get all final mark Determine grade, status and point for all subjects using IF-else-IF based on their total mark and cgpa Display all required for the result such as grade, status, point, total point, gpa and cgpa.	name id prog gradepchm gradepop gradecla gradekl gradekc gradecl gradebd gradeicc ptpchm ptppop ptcla ptkl ptkc ptcl ptbc pticc cwpchm cwpop cwcla cwkl cwkc cwcl cwbd cwicc fmpchm fmpop fmcla fmkl fmkc fmcl fmbd fmicc totalpchm totalpop totalcla totalkl totalkc totalcl totalbd totalicc

		statuspchm statuspop statuscla statuskl statuskc statuscl statusbd statusicc totalptpchm totalptpop totalptcla totalptkl totalptkc totalptcl totalptbd totalpticc gpa cgpa

Short form words used in the table above are as below:

cw - Coursework mark
fm - Final mark
pt - Point
totalpt - Total point
pchm - PC Hardware and Maintenance
pop - Principle of Programming
cla - Cinematic Language and Appreciation
kl - Korean Language
kc - Korean Communication
cl - Calculus
bd - Basic Drawing
icc - Introduction to Intercultural Communication
gpa - Grade Point Average
cgpa - Cumulative Grade Point Average

Phase 2 (Develop Algorithm)

```
Result_slip
        Prompt for student name
        Get student name
        Prompt for student id
        Get student id
        Prompt for prog
        Get prog
        Prompt for cwpchm
        Get cwpchm
        Prompt for fmpchm
        Get fmpchm
        totalpchm =  cwpchm / 100 * 50 +  fmpchm / 100 * 50

        IF totalpchm >= 80 THEN
                gradepchm = "A"
                statuspchm = "PASS"
                ptpchm = 4.00
        ELSE IF totalpchm >= 75 THEN
                gradepchm = "A-"
                statuspchm = "PASS"
                ptpchm = 3.67
                ELSE IF totalpchm >= 70 THEN
                        gradepchm = "B+"
                        statuspchm = "PASS"
                        ptpchm = 3.33
                                ELSE IF totalpchm >= 65 THEN
                                        gradepchm = "B"
                                        statuspchm = "PASS"
                                        ptpchm = 3.00
                                        ELSE IF totalpchm >= 60 THEN
                                                gradepchm = "B-"
                                                statuspchm = "PASS"
                                                ptpchm = 2.67
                                                ELSE IF totalpchm >= 55 THEN
                                                        gradepchm = "C+"
                                                        statuspchm = "PASS"
                                                        ptpchm = 2.33
                                                        ELSE IF totalpchm >= 50 THEN
                                                                gradepchm = "C"
                                                                statuspchm = "PASS"
                                                                ptpchm = 2.00
                                                                ELSE IF totalpchm >= 45 THEN
                                                                        gradepchm = "C-"
                                                                        statuspchm = "PASS"
                                                                        ptpchm = 1.67
                                                                        ELSE IF totalpchm >= 40 THEN
                                                                                gradepchm = "D"
```

```
                                                    statuspchm = "PASS"
                                                    ptpchm = 1.00
                                                ELSE
                                                    gradepchm = "F"
                                                    statuspchm = "FAIL"
                                                    ptpchm = 0.00
                                                ENDIF
                                            ENDIF
                                        ENDIF
                                    ENDIF
                                ENDIF
                            ENDIF
                        ENDIF
                    ENDIF
                ENDIF
        ENDIF
        totalptpchm = ptpchm * 3



IF prog == 1 THEN
        Prompt for cwpop
        Get cwpop
        Prompt for fmpop
        Get fmpop
        totalpop =  cwpop / 100 * 50 +  fmpop / 100 * 50
        IF totalpop >= 80 THEN
                gradepop = "A"
                statuspop = "PASS"
                ptpop = 4.00
        ELSE IF totalpop >= 75 THEN
                gradepop = "A-"
                statuspop = "PASS"
                ptpop = 3.67
                ELSE IF totalpop >= 70 THEN
                        gradepop = "B+"
                        statuspop = "PASS"
                        ptpop = 3.33
                        ELSE IF totalpop >= 65 THEN
                                gradepop = "B"
                                statuspop = "PASS"
                                ptpop = 3.00
                                ELSE IF totalpop >= 60 THEN
                                        gradepop = "B-"
                                        statuspop = "PASS"
                                        ptpop = 2.67
                                        ELSE IF totalpop >= 55 THEN
                                                gradepop = "C+"
                                                statuspop = "PASS"
                                                ptpop = 2.33
                                                ELSE IF totalpop >= 50 THEN
```

```
                                                    gradepop = "C"
                                                    statuspop = "PASS"
                                                    ptpop = 2.00
                                                    ELSE IF totalpop >= 45 THEN
                                                            gradepop = "C-"
                                                            statuspop = "PASS"
                                                            ptpop = 1.67
                                                            ELSE IF totalpop >= 40 THEN
                                                                    gradepop = "D"
                                                                    statuspop = "PASS"
                                                                    ptpop = 1.00
                                                            ELSE
                                                                    gradepop = "F"
                                                                    statuspop = "FAIL"
                                                                    ptpop = 0.00
                                                            ENDIF
                                                    ENDIF
                                            ENDIF
                                    ENDIF
                            ENDIF
                    ENDIF
            ENDIF
    totalptpop = ptpop * 3

ELSE
    Prompt for cwcla
    Get cwcla
    Prompt for fmcla
    Get fmcla
    totalcla =  cwcla / 100 * 50 +  fmcla / 100 * 50

    IF totalcla >= 80 THEN
            gradecla = "A"
            statuscla = "PASS"
            ptcla = 4.00
            ELSE IF totalcla >= 75 THEN
                    gradecla = "A-"
                    statuscla = "PASS"
                    ptcla = 3.67
                    ELSE IF totalcla >= 70 THEN
                            gradecla = "B+"
                            statuscla = "PASS"
                            ptcla = 3.33
                            ELSE IF totalcla >= 65 THEN
                                    gradecla = "B"
                                    statuscla = "PASS"
                                    ptcla = 3.00
                                    ELSE IF totalcla >= 60 THEN
```

```
                                                gradecla = "B-"
                                                statuscla = "PASS"
                                                ptcla = 2.67
                                                ELSE IF totalcla >= 55 THEN
                                                        gradecla = "C+"
                                                        statuscla = "PASS"
                                                        ptcla = 2.33
                                                        ELSE IF totalcla >= 50 THEN
                                                                gradecla = "C"
                                                                statuscla = "PASS"
                                                                ptcla = 2.00
                                                                ELSE IF totalcla >= 45 THEN
                                                                        gradecla = "C-"
                                                                        statuscla = "PASS"
                                                                        ptcla = 1.67
                                                                        ELSE IF totalcla >= 40 THEN
                                                                                gradecla = "D"
                                                                                statuscla = "PASS"
                                                                                ptcla = 1.00
                                                                         ELSE
                                                                                gradecla = "F"
                                                                                statuscla = "FAIL"
                                                                                ptcla = 0.00
                                                                        ENDIF
                                                                ENDIF
                                                        ENDIF
                                                ENDIF
                                        ENDIF
                                ENDIF
                        ENDIF
                ENDIF
        ENDIF
        totalptcla = ptcla * 3
ENDIF

        Prompt for cwkl
        Get cwkl
        Prompt for fmkl
        Get fmkl
        totalkl =  cwkl / 100 * 50 +  fmkl / 100 * 50

IF totalkl >= 80 THEN
        gradekl = "A"
        statuskl = "PASS"
        ptkl = 4.00
        ELSE IF totalkl >= 75 THEN
        gradekl = "A-"
                statuskl = "PASS"
        ptkl = 3.67
                ELSE IF totalkl >= 70 THEN
```

```
        gradekl = "B+"
        statuskl = "PASS"
                ptkl = 3.33
                        ELSE IF totalkl >= 65 THEN
                        gradekl = "B"
                        statuskl = "PASS"
                        ptkl = 3.00
                                ELSE IF totalkl >= 60 THEN
                                        gradekl = "B-"
                                        statuskl = "PASS"
                                        ptkl = 2.67
                                        ELSE IF totalkl >= 55 THEN
                                                gradekl = "C+"
                                                statuskl = "PASS"
                                                ptkl = 2.33
                                                ELSE IF totalkl >= 50 THEN
                                                        gradekl = "C"
                                                        statuskl = "PASS"
                                                        ptkl = 2.00
                                                        ELSE IF totalkl >= 45 THEN
                                                                gradekl = "C-"
                                                                statuskl = "PASS"
                                                                ptkl = 1.67
                                                                ELSE IF totalkl >= 40 THEN
                                                                        gradekl = "D"
                                                                statuskl = "PASS"
                                                                ptkl = 1.00
                                                                 ELSE
                                                                        gradekl = "F"
                                                                statuskl = "FAIL"
                                                                ptkl = 0.00
                                                                ENDIF
                                                        ENDIF
                                                ENDIF
                                        ENDIF
                                ENDIF
                        ENDIF
                ENDIF
        ENDIF
ENDIF
totalptkl = ptkl * 4

Prompt for cwkc
Get cwkc
Prompt for fmkc
Get fmkc
totalkc =  cwkc / 100 * 50 +  fmkc / 100 * 50
```

```
IF totalkc >= 80 THEN
        gradekc = "A"
        statuskc = "PASS"
        ptkc = 4.00
        ELSE IF totalkc >= 75 THEN
        gradekc = "A-"
                statuskc = "PASS"
        ptkc = 3.67
                ELSE IF totalkc >= 70 THEN
                gradekc = "B+"
                statuskc = "PASS"
                        ptkc = 3.33
                                ELSE IF totalkc >= 65 THEN
                                gradekc = "B"
                                statuskc = "PASS"
                                ptkc = 3.00
                                        ELSE IF totalkc >= 60 THEN
                                                gradekc = "B-"
                                                statuskc = "PASS"
                                                ptkc = 2.67
                                                ELSE IF totalkc >= 55 THEN
                                                        gradekc = "C+"
                                                        statuskc = "PASS"
                                                        ptkc = 2.33
                                                        ELSE IF totalkc >= 50 THEN
                                                                gradekc = "C"
                                                                statuskc = "PASS"
                                                                ptkc = 2.00
                                                                ELSE IF totalkc >= 45 THEN
                                                                        gradekc = "C-"
                                                                        statuskc = "PASS"
                                                                        ptkc = 1.67
                                                                        ELSE IF totalkc >= 40 THEN
                                                                                gradekc = "D"
                                                                        statuskc = "PASS"
                                                                        ptkc = 1.00
                                                                         ELSE
                                                                                gradekc = "F"
                                                                        statuskc = "FAIL"
                                                                        ptkc = 0.00
                                                                        ENDIF
                                                                ENDIF
                                                        ENDIF
                                                ENDIF
                                        ENDIF
                                ENDIF
                        ENDIF
                ENDIF
        ENDIF
        totalptkc = ptkc * 4
```

```
  IF prog == 1 THEN
        Prompt for cwcl
        Get cwcl
        Prompt for fmcl
        Get fmcl
        totalcl =  cwcl / 100 * 50 +  fmcl / 100 * 50

IF totalcl >= 80 THEN
        gradecl = "A"
        statuscl = "PASS"
        ptcl = 4.00
        ELSE IF totalcl >= 75 THEN
        gradecl = "A-"
                statuscl = "PASS"
        ptcl = 3.67
                ELSE IF totalcl >= 70 THEN
                gradecl = "B+"
                statuscl = "PASS"
                        ptcl = 3.33
                                ELSE IF totalcl >= 65 THEN
                                gradecl = "B"
                                statuscl = "PASS"
                                ptcl = 3.00
                                        ELSE IF totalcl >= 60 THEN
                                                gradecl = "B-"
                                                statuscl = "PASS"
                                                ptcl = 2.67
                                                ELSE IF totalcl >= 55 THEN
                                                        gradecl = "C+"
                                                        statuscl = "PASS"
                                                        ptcl = 2.33
                                                        ELSE IF totalcl >= 50 THEN
                                                                gradecl = "C"
                                                                statuscl = "PASS"
                                                                ptcl = 2.00
                                                                ELSE IF totalcl >= 45 THEN
                                                                        gradecl = "C-"
                                                                        statuscl = "PASS"
                                                                        ptcl = 1.67
                                                                        ELSE IF totalcl >= 40 THEN
                                                                                gradecl = "D"
                                                                        statuscl = "PASS"
                                                                        ptcl = 1.00
                                                                         ELSE
                                                                                gradecl = "F"
                                                                        statuscl = "FAIL"
                                                                        ptcl = 0.00
```

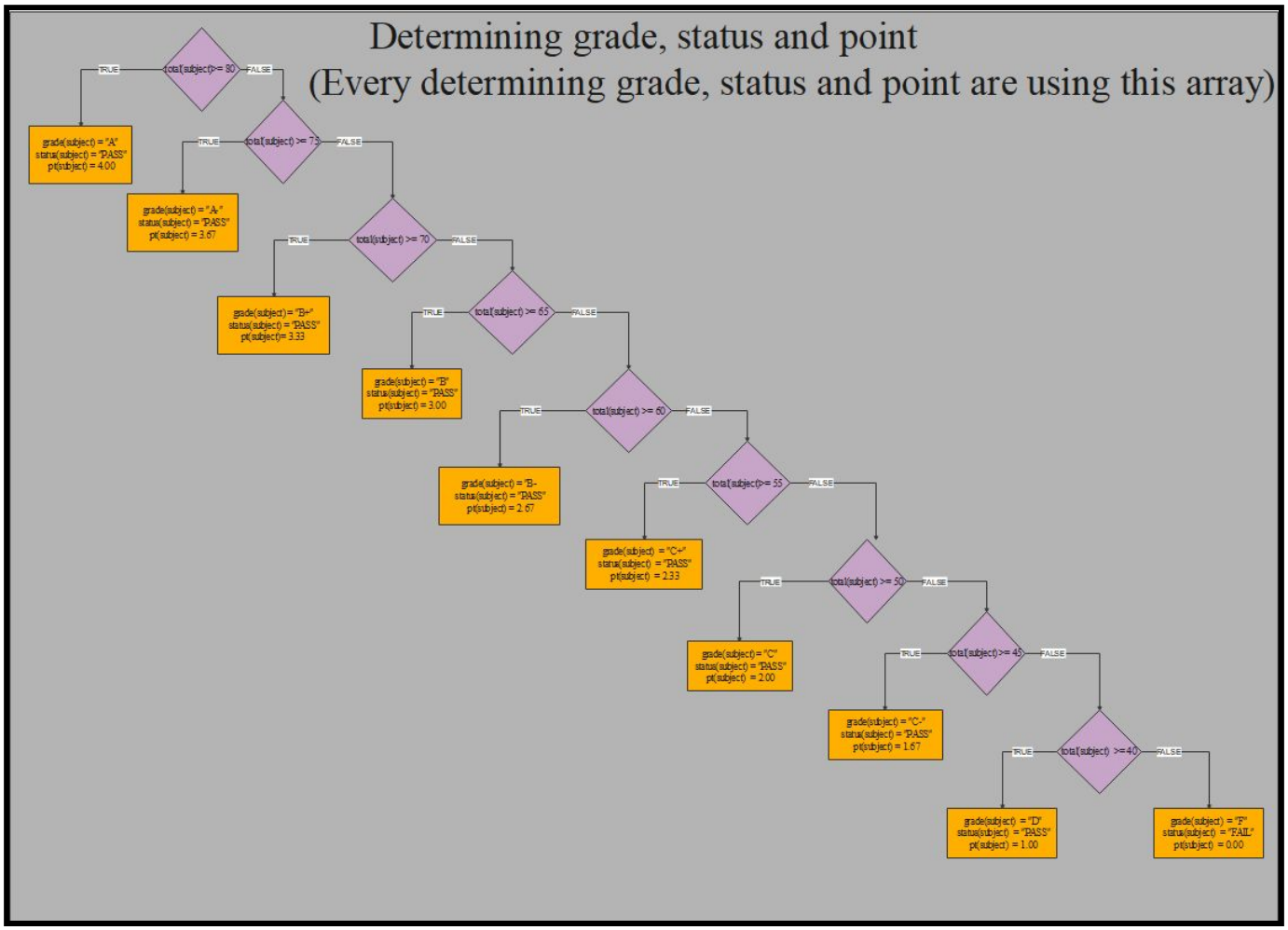
```
                                                                ENDIF
                                                            ENDIF
                                                        ENDIF
                                                    ENDIF
                                                ENDIF
                                            ENDIF
                                        ENDIF
                                    ENDIF
                                ENDIF
                            ENDIF
                        ENDIF
                    ENDIF
                totalptcl = ptcl * 4

            ELSE
                Prompt for cwbd
                Get cwbd
                Prompt for fmbd
                Get cwbd
                 totalbd =  cwbd / 100 * 50 +  fmbd / 100 * 50

IF totalbd >= 80 THEN
                gradebd = "A"
                statusbd = "PASS"
                ptbd = 4.00
                ELSE IF totalbd >= 75 THEN
                gradebd = "A-"
                        statusbd = "PASS"
                ptbd = 3.67
                        ELSE IF totalbd >= 70 THEN
                        gradebd = "B+"
                        statusbd = "PASS"
                                ptbd = 3.33
                                        ELSE IF totalbd >= 65 THEN
                                        gradebd = "B"
                                        statusbd = "PASS"
                                        ptbd = 3.00
                                                ELSE IF totalbd >= 60 THEN
                                                        gradebd = "B-"
                                                        statusbd = "PASS"
                                                        ptbd = 2.67
                                                        ELSE IF totalbd >= 55 THEN
                                                                gradebd = "C+"
                                                                statusbd = "PASS"
                                                                ptbd = 2.33
                                                                ELSE IF totalbd >= 50 THEN
                                                                        gradebd = "C"
                                                                        statusbd = "PASS"
                                                                        ptbd = 2.00
                                                                        ELSE IF totalbd >= 45 THEN
                                                                                gradebd = "C-"
                                                                                statusbd = "PASS"
                                                                                ptbd = 1.67
```

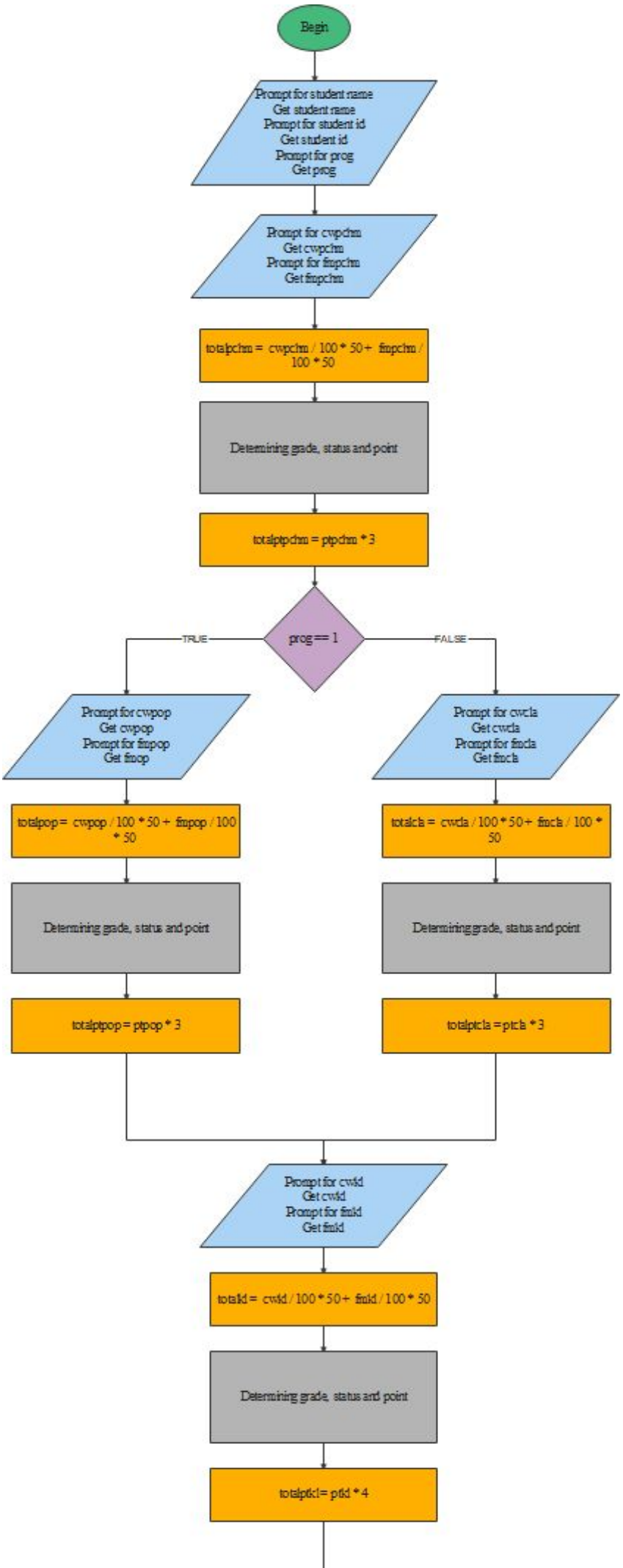
```
                                                    ELSE IF totalbd >= 40 THEN
                                                            gradebd = "D"
                                                    statusbd = "PASS"
                                                    ptbd = 1.00
                                                     ELSE
                                                            gradebd = "F"
                                                    statusbd = "FAIL"
                                                    ptbd = 0.00
                                                    ENDIF
                                                ENDIF
                                            ENDIF
                                        ENDIF
                                    ENDIF
                                ENDIF
                            ENDIF
                        ENDIF
        ENDIF
        totalptbd = ptbd * 4
ENDIF

        Prompt for cwicc
        Get cwicc
        Prompt for fmicc
        Get fmicc
        totalicc =  cwicc / 100 * 50 +  fmicc / 100 * 50

 IF totalicc >= 80 THEN
        gradeicc = "A"
        statusicc = "PASS"
        pticc = 4.00
        ELSE IF totalicc >= 75 THEN
        gradeicc = "A-"
                statusicc = "PASS"
        pticc = 3.67
                ELSE IF totalicc >= 70 THEN
                gradeicc = "B+"
                statusicc = "PASS"
                        pticc = 3.33
                                ELSE IF totalicc >= 65 THEN
                                gradeicc = "B"
                                statusicc = "PASS"
                                pticc = 3.00
                                        ELSE IF totalicc >= 60 THEN
                                                gradeicc = "B-"
                                                statusicc = "PASS"
                                                pticc = 2.67
                                                ELSE IF totalicc >= 55 THEN
                                                        gradeicc = "C+"
                                                        statusicc = "PASS"
                                                        pticc = 2.33
```

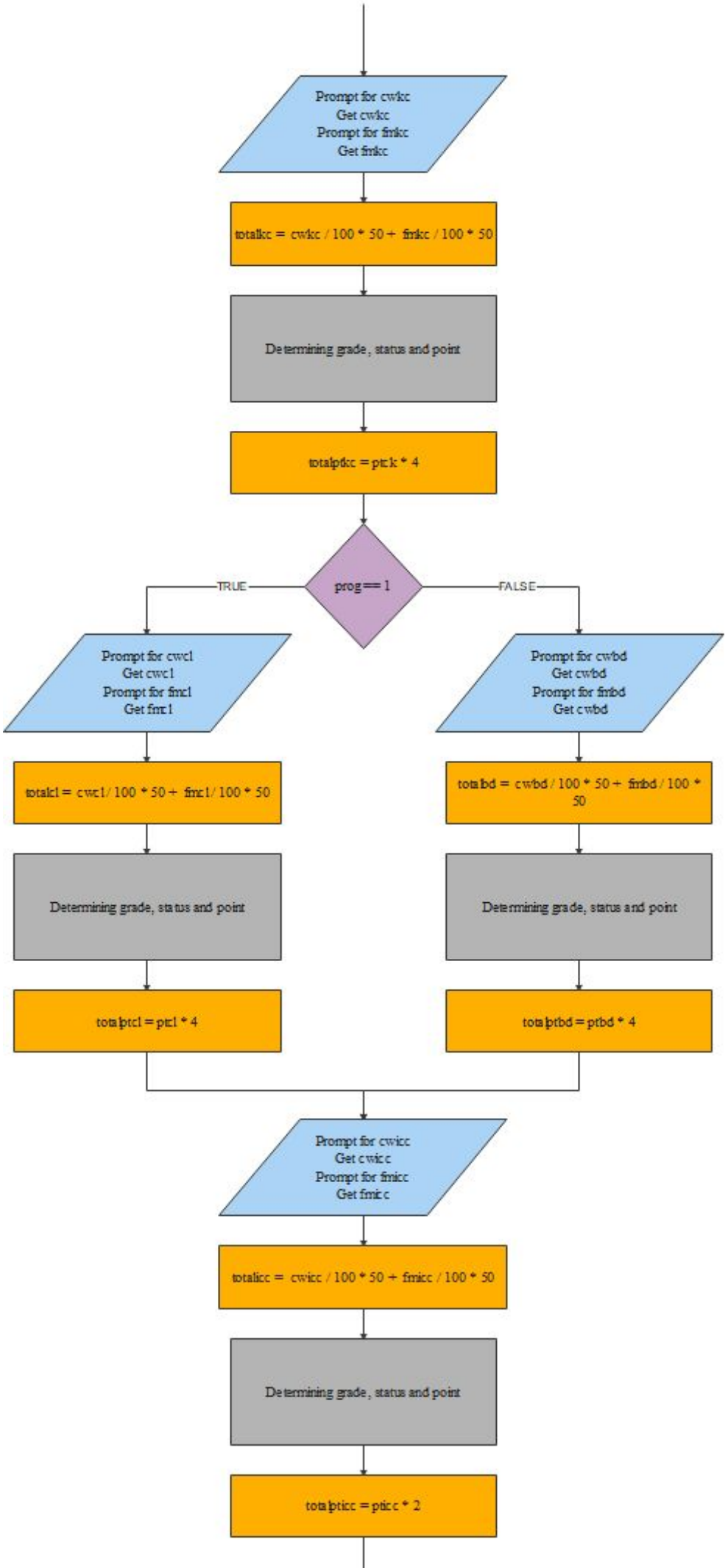
```
                                        ELSE IF totalicc >= 50 THEN
                                                gradeicc = "C"
                                                statusicc = "PASS"
                                                pticc = 2.00
                                                ELSE IF totalicc >= 45 THEN
                                                        gradeicc = "C-"
                                                        statusicc = "PASS"
                                                        pticc = 1.67
                                                        ELSE IF totalicc >= 40 THEN
                                                                gradeicc = "D"
                                                        statusicc = "PASS"
                                                        pticc = 1.00
                                                         ELSE
                                                                gradeicc = "F"
                                                        statusicc = "FAIL"
                                                        pticc = 0.00
                                                        ENDIF
                                                ENDIF
                                        ENDIF
                                ENDIF
                        ENDIF
                ENDIF
        ENDIF
ENDIF
totalpticc = pticc * 2
totalpt = totalptpop + totalpticc + totalptkc + totalptkl + totalptcl + totalptpchm
gpa = totalpt / 20
cgpa = gpa
Display "University Kuala Lumpur"
Display "Result Slip Semester July 2020”
Display "Name    : " + name
Display "Student ID : " + id
Display "Program   : FOUNDATION IN SCIENCE AND TECHNOLOGY FOR KOREAN
UNIVERSITY "
Display "Semester  : 1"
Display "Credit Hour\tGrade\tPoint\tCoursework   " + "Final\tTotal\tStatus\tTotal Point"
Display "1. IDP01103 - INTRODUCTION TO PC HARDWARE AND MAINTENANCE 3" +
gradepchm +  ptpchm  +  cwpchm +    fmpchm  +  totalpchm  + statuspchm +  totalptpchm

IF prog == 1 THEN
        Display "2. IDP01203 - PRINCIPLES OF PROGRAMMING "+ 3 + gradepop +  ptpop  +
        cwpop +    fmpop  +  totalpop  + statuspop +  totalptpop
ELSE
        Display "2. IDP07303 - CINEMATIC LANGUAGE AND APPRECIATION "+ 3 + gradecla +
        ptcla  +  cwcla +    fmcla  +  totalcla  + statuscla +  totalptcla
ENDIF

Display "3. IDP06904 - KOREAN LANGUAGE 1 "+ 4 + gradekl +  ptkl  +  cwkl +    fmkl  +  totalkl
+ statuskl +  totalptkl
```

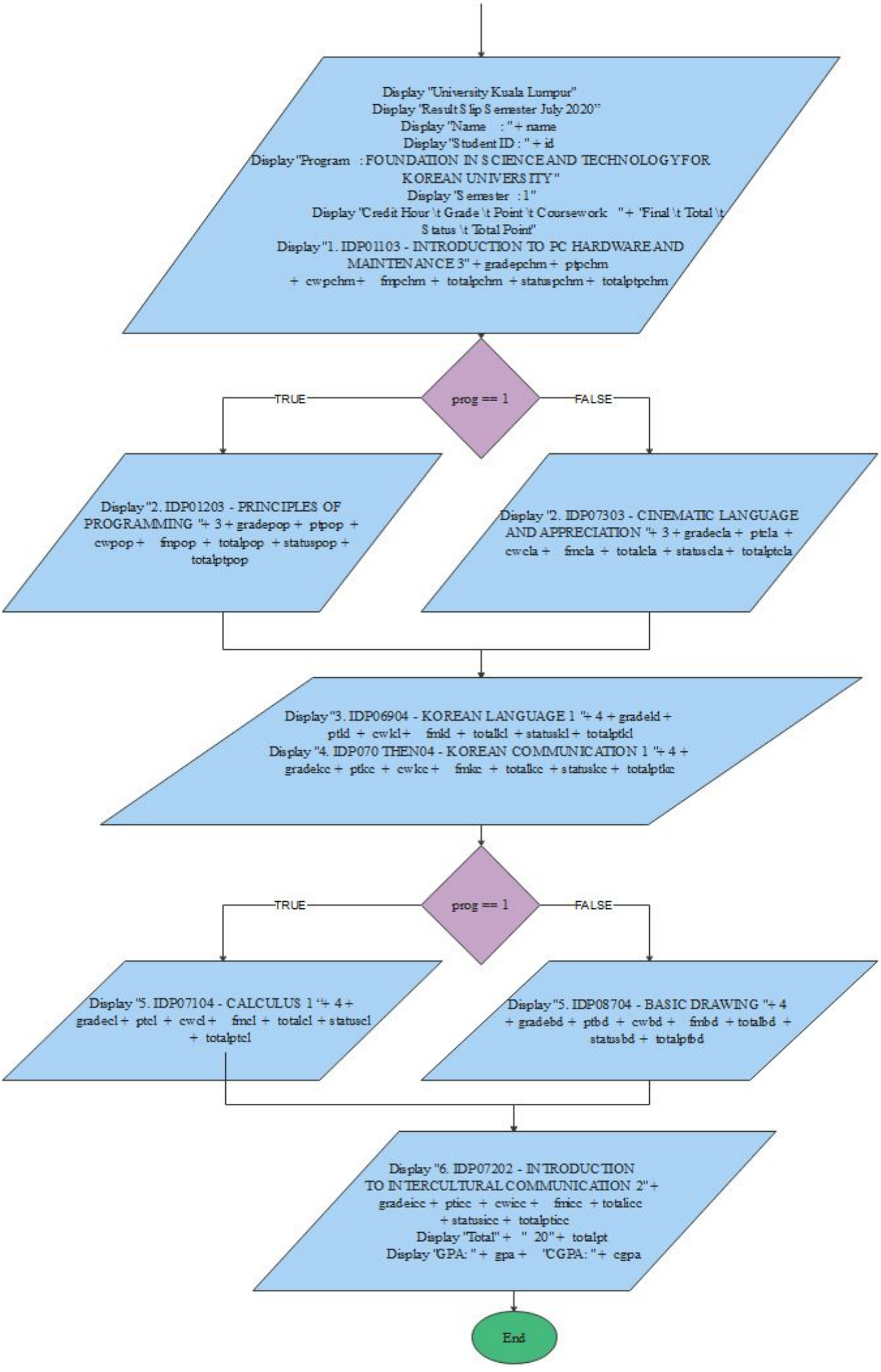
```
        Display "4. IDP070 THEN04 - KOREAN COMMUNICATION 1 "+ 4 + gradekc +  ptkc  +  cwkc +
        fmkc  +  totalkc  + statuskc +  totalptkc

        IF prog == 1 THEN
                Display "5. IDP07104 - CALCULUS 1 “+ 4 + gradecl +  ptcl  +  cwcl +    fmcl  +  totalcl  +
                statuscl +  totalptcl

        ELSE
                Display "5. IDP08704 - BASIC DRAWING "+ 4 + gradebd +  ptbd  +  cwbd +    fmbd  +
                totalbd  + statusbd +  totalptbd
        ENDIF

        Display "6. IDP07202 - INTRODUCTION TO INTERCULTURAL COMMUNICATION 2" +
        gradeicc +  pticc  +  cwicc +    fmicc  +  totalicc  + statusicc +  totalpticc

        Display "Total" +   "  20" +  totalpt
        Display "GPA: " +  gpa +    "CGPA: " +  cgpa
END
```

Flowchart


Determining grade, status and point
(Every determining grade, status and point are using this array)
total[subject]>= 80
TRUE
FALSE
grade(subject) = "A"
status(subject) = "PASS"
pt(subject) = 4.00
total[subject] >= 73
grade(subject) = "A-"
status(subject) = "PASS"
pt(subject) = 3.67
total[subject] >= 70
grade(subject) = "B+"
status(subject) = "PASS"
pt(subject)= 3.33
total[subject] >= 65
grade(subject) = "B"
status(subject) = "PASS"
pt(subject) = 3.00
total[subject] >= 60
grade(subject) = "B-
status(subject) = "PASS"
pt(subject) = 2.67
total[subject]>= 55
grade(subject) = "C+"
status(subject) = "PASS"
pt(subject) = 2.33
total[subject] >= 50
grade(subject) = "C"
status(subject) = "PASS"
pt(subject) = 2.00
total[subject]>= 45
grade(subject) = "C-"
status(subject) = "PASS"
pt(subject) = 1.67
total[subject] >=40
grade(subject) = "D"
status(subject) = "PASS"
pt(subject) = 1.00
grade(subject) = "F"
status(subject) = "FAIL"
pt(subject) = 0.00


Begin
Prompt for student name
Get student name
Prompt for student id
Get student id
Prompt for prog
Get prog
Prompt for cwpchm
Get cwpchm
Prompt for finpchm
Get finpchm
totalpchm = cwpchm / 100 * 50 + finpchm / 100 * 50
Determining grade, status and point
totalptpchm = ptpchm * 3
prog == 1
TRUE
FALSE
Prompt for cwpop
Get cwpop
Prompt for finpop
Get finop
Prompt for cwcla
Get cwcla
Prompt for fincla
Get fincla
totalpop = cwpop / 100 * 50 + finpop / 100 * 50
totalcla = cwcla / 100 * 50 + fincla / 100 * 50
Determining grade, status and point
Determining grade, status and point
totalptpop = ptpop * 3
totalptcla = ptcla * 3
Prompt for cwld
Get cwld
Prompt for finld
Get finld
totalld = cwld / 100 * 50 + finld / 100 * 50
Determining grade, status and point
totalptcl = ptld * 4


Prompt for cwkc
Get cwkc
Prompt for fmkc
Get fmkc
totalkc = cwkc / 100 * 50 + fmkc / 100 * 50
Determining grade, status and point
totalptkc = ptck * 4
prog == 1
TRUE
FALSE
Prompt for cwc1
Get cwc1
Prompt for fmc1
Get fmc1
totalc1 = cwc1 / 100 * 50 + fmc1 / 100 * 50
Determining grade, status and point
totalptc1 = ptc1 * 4
Prompt for cwbd
Get cwbd
Prompt for fmbd
Get cwbd
totalbd = cwbd / 100 * 50 + fmbd / 100 * 50
Determining grade, status and point
totalptbd = ptbd * 4
Prompt for cwicc
Get cwicc
Prompt for fmicc
Get fmicc
totalicc = cwicc / 100 * 50 + fmicc / 100 * 50
Determining grade, status and point
totalpticc = pticc * 2


Display "University Kuala Lumpur"
Display "Result Slip Semester July 2020"
Display "Name : " + name
Display "Student ID : " + id
Display "Program : FOUNDATION IN SCIENCE AND TECHNOLOGY FOR KOREAN UNIVERSITY"
Display "Semester : 1"
Display "Credit Hour \t Grade \t Point \t Coursework " + "Final \t Total \t Status \t Total Point"
Display "1. IDP01103 - INTRODUCTION TO PC HARDWARE AND MAINTENANCE 3" + gradepchm + ptpchm + cwpchm + fmpchm + totalpchm + statuspchm + totalptpchm
prog == 1
TRUE
FALSE
Display "2. IDP01203 - PRINCIPLES OF PROGRAMMING "+ 3 + gradepop + ptpop + cwpop + fmpop + totalpop + statuspop + totalptpop
Display "2. IDP07303 - CINEMATIC LANGUAGE AND APPRECIATION "+ 3 + gradecla + ptcla + cwcla + fmcla + totalcla + statuscla + totalptcla
Display "3. IDP06904 - KOREAN LANGUAGE 1 "+ 4 + gradekl + ptkl + cwkl + fmkl + totalkl + statuskl + totalptkl
Display "4. IDP070 THEN04 - KOREAN COMMUNICATION 1 "+ 4 + gradekc + ptkc + cwkc + fmkc + totalkc + statuskc + totalptkc
prog == 1
TRUE
FALSE
Display "5. IDP07104 - CALCULUS 1 "+ 4 + gradecl + ptcl + cwcl + fmcl + totalcl + statuscl + totalptcl
Display "5. IDP08704 - BASIC DRAWING "+ 4 + gradebd + ptbd + cwbd + fmbd + totalbd + statusbd + totalptbd
Display "6. IDP07202 - INTRODUCTION TO INTERCULTURAL COMMUNICATION 2" + gradeicc + pticc + cwicc + fmicc + totalicc + statusicc + totalpticc
Display "Total" + " 20" + totalpt
Display "GPA: " + gpa + "CGPA: " + cgpa
End

Phase 3 (Implementation)

```
package assignmentresult;

import java.text.DecimalFormat;
import java.util.Scanner;

/**
 *
 * @author USER
 */
public class Main {

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);
        //Set for all decimalformat to be used
        DecimalFormat df = new DecimalFormat("#0.00");
        DecimalFormat df2 = new DecimalFormat("#0");
        DecimalFormat df3 = new DecimalFormat("#00.00");

        //Declaring all variable
        //(-pchm//pop//icc//kl//kc//cl/cla//bd) are all the shortform for coursename
        //Declare for grade
        String name, statuspchm = null, gradepchm, gradepop = null, gradeicc, gradekc, gradekl, gradecl =
null, gradecla = null, gradebd = null;
        // Declare for status
        String statuspop = null, statusicc, statuskc, statuskl, statuscl = null, statuscla = null, statusbd = null;
        //declare variable for choosing program
        int prog;
        //Declare for pt(Point), totalpt(totalpoint),cw(coursework), fm(finalmark
        double ptpchm, totalpt, gpa, cgpa, ptcla = 0, ptbd = 0;
        double ptpop = 0, pticc, ptkc, ptkl, ptcl = 0, totalptpop = 0, totalpticc, totalptkc, totalptkl, totalptcl = 0,
totalptpchm, totalptcla = 0, totalbd = 0, totalptbd = 0;
        double cwpop = 0, fmpop = 0, totalpop = 0, cwcl = 0, fmcl = 0, totalcl = 0;
        double cwcla = 0, fmcla = 0, totalcla = 0;
        double cwbd = 0, fmbd = 0;
        // declare variable for student id
        long id;

        //prompt for student name
        System.out.println("Please enter your name:");
        //get student name
        name = scanner.nextLine();
        System.out.println("");
```

```
        //prompt for student id
        System.out.println("Please enter your student id:");
        //get student id
        id = scanner.nextLong();
        System.out.println("");
        //prompt for course
        System.out.println("Please enter your program based on the code:");
        System.out.println("1 - Pre-Korea [Engineering]");
        System.out.println("2 - Pre-Korea [Animation]");
        //get course
        prog = scanner.nextInt();

        System.out.println("");

        //Prompting for PCHM mark
        System.out.println("[You are going to enter your coursework mark and final mark for every
subject]");
        System.out.println("");
        System.out.println("Subject: IDP01103 - INTRODUCTION TO PC HARDWARE AND
MAINTENANCE ");
        System.out.println("Coursework mark:");
        double cwpchm = scanner.nextDouble();
        System.out.println("Final mark:");
        double fmpchm = scanner.nextDouble();
        //calculate total mark
        double totalpchm = ((cwpchm / 100) * 50) + ((fmpchm / 100) * 50);
        //Find grade, status and point for the subject
        if (totalpchm >= 80) {
            gradepchm = "A";
            statuspchm = "PASS";
            ptpchm = 4.00;
        } else if (totalpchm >= 75) {
            gradepchm = "A-";
            statuspchm = "PASS";
            ptpchm = 3.67;
        } else if (totalpchm >= 70) {
            gradepchm = "B+";
            statuspchm = "PASS";
            ptpchm = 3.33;
        } else if (totalpchm >= 65) {
            gradepchm = "B";
            statuspchm = "PASS";
            ptpchm = 3.00;
        } else if (totalpchm >= 60) {
            gradepchm = "B-";
            statuspchm = "PASS";
            ptpchm = 2.67;
        } else if (totalpchm >= 55) {
            gradepchm = "C+";
            statuspchm = "PASS";
```

```
            ptpchm = 2.33;
        } else if (totalpchm >= 50) {
            gradepchm = "C";
            statuspchm = "PASS";
            ptpchm = 2.00;
        } else if (totalpchm >= 45) {
            gradepchm = "C-";
            statuspchm = "PASS";
            ptpchm = 1.67;
        } else if (totalpchm >= 40) {
            gradepchm = "D";
            statuspchm = "PASS";
            ptpchm = 1.00;
        } else {
            gradepchm = "F";
            statuspchm = "FAIL";
            ptpchm = 0.00;
        }
        //calculate total point
        totalptpchm = ptpchm * 3;

        //Since there are animation and engineering course, hence the difference prompting mark for
subject are needed
        //Prompting for either animation or engineering subject mark.
        if (prog == 1) {
            System.out.println("");
            System.out.println("Subject: IDP01203 - PRINCIPLES OF PROGRAMMING ");
            System.out.println("Coursework mark:");
            cwpop = scanner.nextDouble();
            System.out.println("Final mark:");
            fmpop = scanner.nextDouble();
            //calculate total mark
            totalpop = ((cwpop / 100) * 50) + ((fmpop / 100) * 50);
            //Find grade, status and point for the subject
            if (totalpop >= 80) {
                gradepop = "A";
                statuspop = "PASS";
                ptpop = 4.00;
            } else if (totalpop >= 75) {
                gradepop = "A-";
                statuspop = "PASS";
                ptpop = 3.67;
            } else if (totalpop >= 70) {
                gradepop = "B+";
                statuspop = "PASS";
                ptpop = 3.33;
            } else if (totalpop >= 65) {
                gradepop = "B";
                statuspop = "PASS";
                ptpop = 3.00;
```

```
    } else if (totalpop >= 60) {
        gradepop = "B-";
        statuspop = "PASS";
        ptpop = 2.67;
    } else if (totalpop >= 55) {
        gradepop = "C+";
        statuspop = "PASS";
        ptpop = 2.33;
    } else if (totalpop >= 50) {
        gradepop = "C";
        statuspop = "PASS";
        ptpop = 2.00;
    } else if (totalpop >= 45) {
        gradepop = "C-";
        statuspop = "PASS";
        ptpop = 1.67;
    } else if (totalpop >= 40) {
        gradepop = "D";
        statuspop = "PASS";
        ptpop = 1.00;
    } else {
        gradepop = "F";
        statuspop = "FAIL";
        ptpop = 0.00;
    }
    //calculate total point
    totalptpop = ptpop * 3;
} else {
    System.out.println("");
    System.out.println("Subject: IDP07303 - CINEMATIC LANGUAGE AND APPRECIATION ");
    System.out.println("Coursework mark:");
    cwcla = scanner.nextDouble();
    System.out.println("Final mark:");
    fmcla = scanner.nextDouble();
    //calculate total mark
    totalcla = ((cwcla / 100) * 50) + ((fmcla / 100) * 50);
    //Find grade, status and point for the subject
    if (totalcla >= 80) {
        gradecla = "A";
        statuscla = "PASS";
        ptcla = 4.00;
    } else if (totalcla >= 75) {
        gradecla = "A-";
        statuscla = "PASS";
        ptcla = 3.67;
    } else if (totalcla >= 70) {
        gradecla = "B+";
        statuscla = "PASS";
        ptcla = 3.33;
    } else if (totalcla >= 65) {
```

```
            gradecla = "B";
            statuscla = "PASS";
            ptcla = 3.00;
        } else if (totalcla >= 60) {
            gradecla = "B-";
            statuscla = "PASS";
            ptcla = 2.67;
        } else if (totalcla >= 55) {
            gradecla = "C+";
            statuscla = "PASS";
            ptcla = 2.33;
        } else if (totalcla >= 50) {
            gradecla = "C";
            statuscla = "PASS";
            ptcla = 2.00;
        } else if (totalcla >= 45) {
            gradecla = "C-";
            statuscla = "PASS";
            ptcla = 1.67;
        } else if (totalcla >= 40) {
            gradecla = "D";
            statuscla = "PASS";
            ptcla = 1.00;
        } else {
            gradecla = "F";
            statuscla = "FAIL";
            ptcla = 0.00;
        }
        //calculate total point
        totalptcla = ptcla * 3;
    }
    //Prompting for next subject
    System.out.println("");
    System.out.println("Subject: IDP06904 - KOREAN LANGUAGE 1 ");
    System.out.println("Coursework mark:");
    double cwkl = scanner.nextDouble();
    System.out.println("Final mark:");
    double fmkl = scanner.nextDouble();
    //calculate total mark
    double totalkl = ((cwkl / 100) * 50) + ((fmkl / 100) * 50);
    //Find grade, status and point for the subject
    if (totalkl >= 80) {
        gradekl = "A";
        statuskl = "PASS";
        ptkl = 4.00;
    } else if (totalkl >= 75) {
        gradekl = "A-";
        statuskl = "PASS";
        ptkl = 3.67;
    } else if (totalkl >= 70) {
```

```
    gradekl = "B+";
    statuskl = "PASS";
    ptkl = 3.33;
} else if (totalkl >= 65) {
    gradekl = "B";
    statuskl = "PASS";
    ptkl = 3.00;
} else if (totalkl >= 60) {
    gradekl = "B-";
    statuskl = "PASS";
    ptkl = 2.67;
} else if (totalkl >= 55) {
    gradekl = "C+";
    statuskl = "PASS";
    ptkl = 2.33;
} else if (totalkl >= 50) {
    gradekl = "C";
    statuskl = "PASS";
    ptkl = 2.00;
} else if (totalkl >= 45) {
    gradekl = "C-";
    statuskl = "PASS";
    ptkl = 1.67;
} else if (totalkl >= 40) {
    gradekl = "D";
    statuskl = "PASS";
    ptkl = 1.00;
} else {
    gradekl = "F";
    statuskl = "FAIL";
    ptkl = 0.00;
}
//calculate total point
totalptkl = ptkl * 4;

System.out.println("");
System.out.println("Subject: IDP07004 - KOREAN COMMUNICATION 1 ");
System.out.println("Coursework mark:");
double cwkc = scanner.nextDouble();
System.out.println("Final mark:");
double fmkc = scanner.nextDouble();
//calculate total mark
double totalkc = ((cwkc / 100) * 50) + ((fmkc / 100) * 50);
//Find grade, status and point for the subject
if (totalkc >= 80) {
    gradekc = "A";
    statuskc = "PASS";
    ptkc = 4.00;
} else if (totalkc >= 75) {
    gradekc = "A-";
```

```
    statuskc = "PASS";
    ptkc = 3.67;
} else if (totalkc >= 70) {
    gradekc = "B+";
    statuskc = "PASS";
    ptkc = 3.33;
} else if (totalkc >= 65) {
    gradekc = "B";
    statuskc = "PASS";
    ptkc = 3.00;
} else if (totalkc >= 60) {
    gradekc = "B-";
    statuskc = "PASS";
    ptkc = 2.67;
} else if (totalkc >= 55) {
    gradekc = "C+";
    statuskc = "PASS";
    ptkc = 2.33;
} else if (totalkc >= 50) {
    gradekc = "C";
    statuskc = "PASS";
    ptkc = 2.00;
} else if (totalkc >= 45) {
    gradekc = "C-";
    statuskc = "PASS";
    ptkc = 1.67;
} else if (totalkc >= 40) {
    gradekc = "D";
    statuskc = "PASS";
    ptkc = 1.00;
} else {
    gradekc = "F";
    statuskc = "FAIL";
    ptkc = 0.00;
}
//calculate total point
totalptkc = ptkc * 4;
if (prog == 1) {
    System.out.println("");
    System.out.println("Subject: IDP07104 - CALCULUS 1");
    System.out.println("Coursework mark:");
    cwcl = scanner.nextDouble();
    System.out.println("Final mark:");
    fmcl = scanner.nextDouble();
    //calculate total mark
    totalcl = ((cwcl / 100) * 50) + ((fmcl / 100) * 50);
    //Find grade, status and point for the subject
    if (totalcl >= 80) {
        gradecl = "A";
        statuscl = "PASS";
```

```
            ptcl = 4.00;
        } else if (totalcl >= 75) {
            gradecl = "A-";
            statuscl = "PASS";
            ptcl = 3.67;
        } else if (totalcl >= 70) {
            gradecl = "B+";
            statuscl = "PASS";
            ptcl = 3.33;
        } else if (totalcl >= 65) {
            gradecl = "B";
            statuscl = "PASS";
            ptcl = 3.00;
        } else if (totalcl >= 60) {
            gradecl = "B-";
            statuscl = "PASS";
            ptcl = 2.67;
        } else if (totalcl >= 55) {
            gradecl = "C+";
            statuscl = "PASS";
            ptcl = 2.33;
        } else if (totalcl >= 50) {
            gradecl = "C";
            statuscl = "PASS";
            ptcl = 2.00;
        } else if (totalcl >= 45) {
            gradecl = "C-";
            statuscl = "PASS";
            ptcl = 1.67;
        } else if (totalcl >= 40) {
            gradecl = "D";
            statuscl = "PASS";
            ptcl = 1.00;
        } else {
            gradecl = "F";
            statuscl = "FAIL";
            ptcl = 0.00;
        }
        //calculate total point
        totalptcl = ptcl * 4;
    } else {
        System.out.println("");
        System.out.println("Subject: IDP08704 - BASIC DRAWING");
        System.out.println("Coursework mark:");
        cwbd = scanner.nextDouble();
        System.out.println("Final mark:");
        fmbd = scanner.nextDouble();
        //calculate total mark
        totalbd = ((cwbd / 100) * 50) + ((fmbd / 100) * 50);
        //Find grade, status and point for the subject
```

```
            if (totalbd >= 80) {
                gradebd = "A";
                statusbd = "PASS";
                ptbd = 4.00;
            } else if (totalbd >= 75) {
                gradebd = "A-";
                statusbd = "PASS";
                ptbd = 3.67;
            } else if (totalbd >= 70) {
                gradebd = "B+";
                statusbd = "PASS";
                ptbd = 3.33;
            } else if (totalbd >= 65) {
                gradebd = "B";
                statusbd = "PASS";
                ptbd = 3.00;
            } else if (totalbd >= 60) {
                gradebd = "B-";
                statusbd = "PASS";
                ptbd = 2.67;
            } else if (totalbd >= 55) {
                gradebd = "C+";
                statusbd = "PASS";
                ptbd = 2.33;
            } else if (totalbd >= 50) {
                gradebd = "C";
                statusbd = "PASS";
                ptbd = 2.00;
            } else if (totalbd >= 45) {
                gradebd = "C-";
                statusbd = "PASS";
                ptbd = 1.67;
            } else if (totalbd >= 40) {
                gradebd = "D";
                statusbd = "PASS";
                ptbd = 1.00;
            } else {
                gradebd = "F";
                statusbd = "FAIL";
                ptbd = 0.00;
            }
            //calculate total point
            totalptbd = ptbd * 4;
        }
        //Prompting and get for the last subject mark
        System.out.println("");
        System.out.println("Subject: IDP07202 - INTRODUCTION TO INTERCULTURAL
COMMUNICATION ");
        System.out.println("Coursework mark:");
        double cwicc = scanner.nextDouble();
```

```
System.out.println("Final mark:");
double fmicc = scanner.nextDouble();
//calculate total mark
double totalicc = ((cwicc / 100) * 50) + ((fmicc / 100) * 50);
//Find grade, status and point for the subject
if (totalicc >= 80) {
    gradeicc = "A";
    statusicc = "PASS";
    pticc = 4.00;
} else if (totalicc >= 75) {
    gradeicc = "A-";
    statusicc = "PASS";
    pticc = 3.67;
} else if (totalicc >= 70) {
    gradeicc = "B+";
    statusicc = "PASS";
    pticc = 3.33;
} else if (totalicc >= 65) {
    gradeicc = "B";
    statusicc = "PASS";
    pticc = 3.00;
} else if (totalicc >= 60) {
    gradeicc = "B-";
    statusicc = "PASS";
    pticc = 2.67;
} else if (totalicc >= 55) {
    gradeicc = "C+";
    statusicc = "PASS";
    pticc = 2.33;
} else if (totalicc >= 50) {
    gradeicc = "C";
    statusicc = "PASS";
    pticc = 2.00;
} else if (totalicc >= 45) {
    gradeicc = "C-";
    statusicc = "PASS";
    pticc = 1.67;
} else if (totalicc >= 40) {
    gradeicc = "D";
    statusicc = "PASS";
    pticc = 1.00;
} else {
    gradeicc = "F";
    statusicc = "FAIL";
    pticc = 0.00;
}
//calculate total point
totalpticc = pticc * 2;

//calculate gpa
```

```
        totalpt = totalptpop + totalpticc + totalptkc + totalptkl + totalptcl + totalptpchm;
        gpa = totalpt / 20;
        //Since this is the first semester, hence the cgpa=gpa
        cgpa = gpa;

        //Display the result
        System.out.println("\t" + "\t" + "\t" + "\t" + "\t" + "\t   " + "University Kuala Lumpur");
        System.out.println("\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "Result Slip Semester July 2020");

System.out.println("_____
_____
___");
        System.out.println("Name        : " + name);
        System.out.println("Student ID  : " + id);
        System.out.println("Program     : FOUNDATION IN SCIENCE AND TECHNOLOGY FOR KOREAN
UNIVERSITY ");
        System.out.println("Semester    : 1");

System.out.println("_____
_____
___");
        System.out.println("                                                Credit Hour\tGrade\tPoint\tCoursework
" + "Final\tTotal\tStatus\tTotal Point");

System.out.println("----------
----------");
        System.out.println("1. IDP01103 - INTRODUCTION TO PC HARDWARE AND MAINTENANCE
3" + "\t" + "\t " + gradepchm + "\t " + df.format(ptpchm) + "\t   " + df2.format(cwpchm) + "\t" + "\t" +
df2.format(fmpchm) + "\t " + df2.format(totalpchm) + "\t " + statuspchm + "\t   " + df3.format(totalptpchm));
        if (prog == 1) {
            System.out.println("2. IDP01203 - PRINCIPLES OF PROGRAMMING                    3" + "\t"
+ "\t " + gradepop + "\t " + df.format(ptpop) + "\t   " + df2.format(cwpop) + "\t" + "\t" + df2.format(fmpop) +
"\t " + df2.format(totalpop) + "\t " + statuspop + "\t   " + df3.format(totalptpop));
        } else {
            System.out.println("2. IDP07303 - CINEMATIC LANGUAGE AND APPRECIATION          3"
+ "\t" + "\t " + gradecla + "\t " + df.format(ptcla) + "\t   " + df2.format(cwcla) + "\t" + "\t" + df2.format(fmcla)
+ "\t " + df2.format(totalcla) + "\t " + statuscla + "\t   " + df3.format(totalptcla));
        }
        System.out.println("3. IDP06904 - KOREAN LANGUAGE 1                            4" + "\t" + "\t " +
gradekl + "\t " + df.format(ptkl) + "\t   " + df2.format(cwkl) + "\t" + "\t" + df2.format(fmkl) + "\t " +
df2.format(totalkl) + "\t " + statuskl + "\t   " + df3.format(totalptkl));
        System.out.println("4. IDP07004 - KOREAN COMMUNICATION 1                       4" + "\t" + "\t
" + gradekc + "\t " + df.format(ptkc) + "\t   " + df2.format(cwkc) + "\t" + "\t" + df2.format(fmkc) + "\t " +
df2.format(totalkc) + "\t " + statuskc + "\t   " + df3.format(totalptkc));
        if (prog == 1) {
            System.out.println("5. IDP07104 - CALCULUS 1                                   4" + "\t" + "\t " +
gradecl + "\t " + df.format(ptcl) + "\t   " + df2.format(cwcl) + "\t" + "\t" + df2.format(fmcl) + "\t " +
df2.format(totalcl) + "\t " + statuscl + "\t   " + df3.format(totalptcl));
        } else {
```

```
            System.out.println("5. IDP08704 - BASIC DRAWING                                    4" + "\t" + "\t " +
gradebd + "\t " + df.format(ptbd) + "\t   " + df2.format(cwbd) + "\t" + "\t" + df2.format(fmbd) + "\t " +
df2.format(totalbd) + "\t " + statusbd + "\t   " + df3.format(totalptbd));
        }
        System.out.println("6. IDP07202 - INTRODUCTION TO INTERCULTURAL COMMUNICATION
2" + "\t" + "\t " + gradeicc + "\t " + df.format(pticc) + "\t   " + df2.format(cwicc) + "\t" + "\t" +
df2.format(fmicc) + "\t " + df2.format(totalicc) + "\t " + statusicc + "\t   " + df3.format(totalpticc));

System.out.println("_____
_____
___");
        System.out.println("\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "Total" + "\t" + "\t" + "    20" + "\t" + "\t" + "\t" +
"\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "\t   " + df.format(totalpt));
        System.out.println("");
        System.out.println("\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "\t" + "GPA: " + df.format(gpa) + "\t" +
"\t" + "\t" + "CGPA: " + df.format(cgpa));

System.out.println("_____
_____
___");
    }
}
```

Phase 4 (Testing the Program)

Data Set 1

Variable	Output that will come out							
Name	Lorem ipsum							
Student ID	5555							
Program input	Pre-Korea (Engineering)							
Program	Foundation in Science and Technology for Korean University							
Semester	1							
Subject	Credit hour	Grade	Point	Coursework mark	Final mark	Total	Status	Total point
PCHM	3	A	4.00	87	95	91	PASS	12.00
POP	3	B	3.00	66	73	70	PASS	09.00
KL	4	B-	2.67	45	78	62	PASS	10.68
KC	4	C-	1.67	40	53	46	PASS	06.68
CL	4	F	0.00	24	44	34	FAIL	00.00
ICC	2	B+	3.33	70	75	72	PASS	06.66
Total	20	-	-	-	-	-	-	45.02
GPA	2.25							
CGPA	2.25							

Output Sample

```
                                        University Kuala Lumpur
                                    Result Slip Semester July 2020

Name        : Lorem ipsum
Student ID  : 5555
Program     : FOUNDATION IN SCIENCE AND TECHNOLOGY FOR KOREAN UNIVERSITY
Semester    : 1

                                                   Credit Hour    Grade  Point  Coursework    Final   Total  Status  Total Point
-------------------------------------------------------------------------------------------------------------------------------
1. IDP01103 - INTRODUCTION TO PC HARDWARE AND MAINTENANCE    3      A     4.00     87          95      91     PASS     12.00
2. IDP01203 - PRINCIPLES OF PROGRAMMING                      3      B     3.00     66          73      70     PASS     09.00
3. IDP06904 - KOREAN LANGUAGE 1                              4      B-    2.67     45          78      62     PASS     10.68
4. IDP07004 - KOREAN COMMUNICATION 1                         4      C-    1.67     40          53      46     PASS     06.68
5. IDP07104 - CALCULUS 1                                     4      F     0.00     24          44      34     FAIL     00.00
6. IDP07202 - INTRODUCTION TO INTERCULTURAL COMMUNICATION    2      B+    3.33     70          75      72     PASS     06.66

                                        Total               20                                                           45.02

                                                  GPA: 2.25                    CGPA: 2.25

BUILD SUCCESSFUL (total time: 53 seconds)
```

Data set 2

Variable	Output that will come out							
Name	Lorem ipsum dolor							
Student ID	6666							
Program input	Pre-Korea (Animation)							
Program	Foundation in Science and Technology for Korean University							
Semester	1							
Subject	Credit hour	Grade	Point	Coursework mark	Final mark	Total	Status	Total point
PCHM	3	A	4.00	70	100	85	PASS	12.00
CLA	3	D	1.00	40	45	42	PASS	03.00
KL	4	C	2.00	50	53	52	PASS	08.00
KC	4	C+	2.33	55	58	56	PASS	09.32
BD	4	A-	3.67	75	78	76	PASS	14.68
ICC	2	F	0.00	12	33	22	FAIL	00.00
Total	20	-	-	-	-	-	-	29.32
GPA	1.47							
CGPA	1.47							

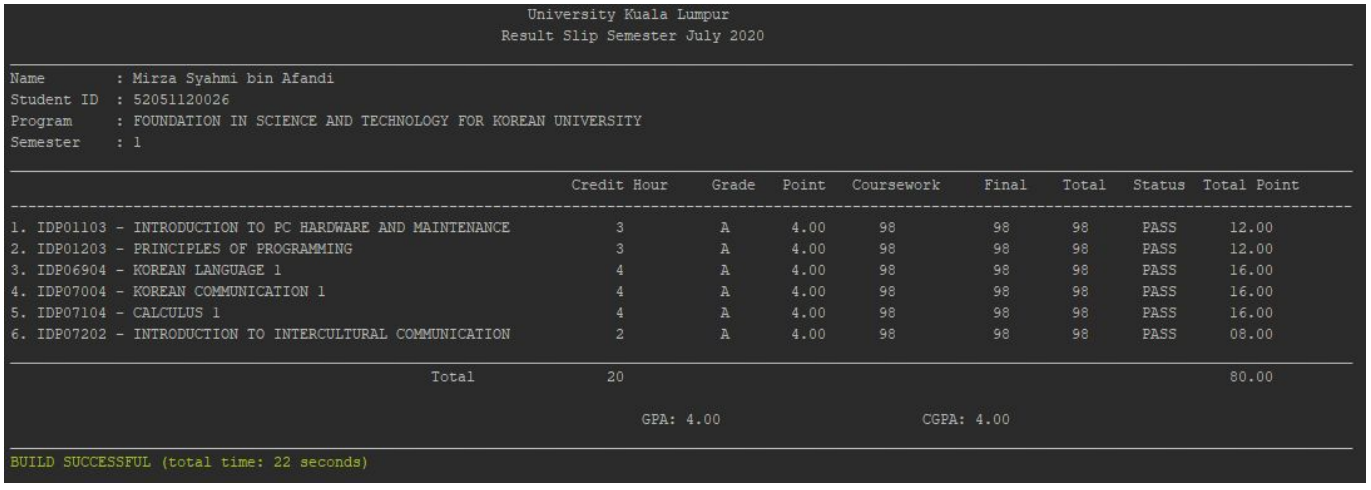
Output sample:

```
                                    University Kuala Lumpur
                                 Result Slip Semester July 2020
------------------------------------------------------------------------------------------------------------------------
Name        : Lorem ipsum dolor
Student ID  : 6666
Program     : FOUNDATION IN SCIENCE AND TECHNOLOGY FOR KOREAN UNIVERSITY
Semester    : 1
------------------------------------------------------------------------------------------------------------------------
                                              Credit Hour     Grade   Point   Coursework     Final    Total   Status  Total Point
------------------------------------------------------------------------------------------------------------------------
1. IDP01103 - INTRODUCTION TO PC HARDWARE AND MAINTENANCE      3          A      4.00      70           100      85      PASS      12.00
2. IDP07303 - CINEMATIC LANGUAGE AND APPRECIATION              3          D      1.00      40           45       42      PASS      03.00
3. IDP06904 - KOREAN LANGUAGE 1                                4          C      2.00      50           53       52      PASS      08.00
4. IDP07004 - KOREAN COMMUNICATION 1                           4          C+     2.33      55           58       56      PASS      09.32
5. IDP08704 - BASIC DRAWING                                    4          A-     3.67      75           78       76      PASS      14.68
6. IDP07202 - INTRODUCTION TO INTERCULTURAL COMMUNICATION      2          F      0.00      12           33       22      FAIL      00.00
------------------------------------------------------------------------------------------------------------------------
                                  Total             20                                                                   29.32

                                                      GPA: 1.47                       CGPA: 1.47
------------------------------------------------------------------------------------------------------------------------
BUILD SUCCESSFUL (total time: 38 seconds)
```

Data Set 3

Variable	Output that will come out							
Name	Mirza Syahmi bin Afandi							
Student ID	52051120026							
Program input	Pre-Korea (Engineering)							
Program	Foundation in Science and Technology for Korean University							
Semester	1							
Subject	Credit hour	Grade	Point	Coursework mark	Final mark	Total	Status	Total point
PCHM	3	A	4.00	98	98	98	PASS	12.00
CLA	3	A	4.00	98	98	98	PASS	12.00
KL	4	A	4.00	98	98	98	PASS	16.00
KC	4	A	4.00	98	98	98	PASS	16.00
BD	4	A	4.00	98	98	98	PASS	16.00
ICC	2	A	4.00	98	98	98	FAIL	08.00
Total	20	-	-	-	-	-	-	80.00
GPA	4.00							
CGPA	4.00							

Output sample:



```
                                University Kuala Lumpur
                                Result Slip Semester July 2020
--------------------------------------------------------------------------------
Name        : Mirza Syahmi bin Afandi
Student ID  : 52051120026
Program     : FOUNDATION IN SCIENCE AND TECHNOLOGY FOR KOREAN UNIVERSITY
Semester    : 1
--------------------------------------------------------------------------------
                                                Credit Hour   Grade  Point  Coursework  Final  Total  Status  Total Point
--------------------------------------------------------------------------------
1. IDP01103 - INTRODUCTION TO PC HARDWARE AND MAINTENANCE          3       A    4.00      98     98     98    PASS      12.00
2. IDP01203 - PRINCIPLES OF PROGRAMMING                            3       A    4.00      98     98     98    PASS      12.00
3. IDP06904 - KOREAN LANGUAGE 1                                    4       A    4.00      98     98     98    PASS      16.00
4. IDP07004 - KOREAN COMMUNICATION 1                               4       A    4.00      98     98     98    PASS      16.00
5. IDP07104 - CALCULUS 1                                           4       A    4.00      98     98     98    PASS      16.00
6. IDP07202 - INTRODUCTION TO INTERCULTURAL COMMUNICATION          2       A    4.00      98     98     98    PASS      08.00
--------------------------------------------------------------------------------
                                      Total                       20                                                    80.00

                                                GPA: 4.00                CGPA: 4.00
--------------------------------------------------------------------------------
BUILD SUCCESSFUL (total time: 22 seconds)
```

Phase 5 (Documentation)

Internal documentation : Comment in program

External documentation : The complete documentation of program development lifecycle (Phase 1 – 5)