## CS202 Ast3 Sample Output F24

kishore@kishore-ubuntu:/Ast3 F24 v3\$ make

g++ -Wall -Wextra -pedantic -std=c++11 -g -c main.cpp

g++ -Wall -Wextra -pedantic -std=c++11 -g -o main main.o studentDetailsImp.o studentTypeImp.o

calculatorImp.o fileHandlerImp.o

kishore@kishore-ubuntu:/Ast3 F24 v3\$./main

Invalid ID for the student: Jane Smith Invalid ID for the student: Emily Brown Invalid ID for the student: David Lee Invalid ID for the student: Jack Cox

Invalid ID for the student: Alexander Jones Invalid ID for the student: Emily Webb

Student Fee Calculations:

Student: 1

Name: Sophia Taylor, Birth Year: 1998, Year Enrolled: 2020

Student ID: tay2920, Department: Computer Science, Degree: Undergraduate

Residency: International

Credits Required: 120, Years to Graduate: 4

Undergraduate Non-Resident credit Fee: 317.25\*120 = 38070.00 Undergraduate Non-Resident Year Fee: 18150.10\*4 = 72600.40

Undergraduate Non-Resident Year Insurance Fee: 4100.00\*4 = 16400.00

Estimated Fee in Total: 127070.40

Student: 2

Name: Luke Tucker, Birth Year: 2001, Year Enrolled: 2023

Student ID: tuc2023, Department: Civil Engineering, Degree: Graduate

Residency: International

Credits Required: 34, Years to Graduate: 3

Graduate Non-Resident credit Fee: 388.75\*34 = 13217.50 Graduate Non-Resident Year Fee: 18150.10\*3 = 54450.30

Graduate Non-Resident Year Insurance Fee: 4100.00\*3 = 12300.00

Estimated Fee in Total: 79967.80

Student: 3

Name: John Doe, Birth Year: 1999, Year Enrolled: 2024

Student ID: doe1924, Department: Computer Science, Degree: Graduate

Residency: Resident

Credits Required: 30, Years to Graduate: 2 Graduate Resident: 123.25\*30 = 3697.50

Estimated Fee in Total: 3697.50

Student: 4

Name: Jane Smith, Birth Year: 2000, Year Enrolled: 2022

Student ID: smi1022, Department: Electrical Engineering, Degree: Undergraduate

Residency: International

Credits Required: 120, Years to Graduate: 5

Undergraduate Non-Resident credit Fee: 317.25\*120 = 38070.00 Undergraduate Non-Resident Year Fee: 18150.10\*5 = 90750.50

Undergraduate Non-Resident Year Insurance Fee: 4100.00\*5 = 20500.00

Estimated Fee in Total: 149320.50

Student: 5

Name: Michael Johnson, Birth Year: 2002, Year Enrolled: 2023

Student ID: joh2023, Department: Mechanical Engineering, Degree: Graduate

Residency: International

Credits Required: 34, Years to Graduate: 3

Graduate Non-Resident credit Fee: 388.75\*34 = 13217.50 Graduate Non-Resident Year Fee: 18150.10\*3 = 54450.30

Graduate Non-Resident Year Insurance Fee: 4100.00\*3 = 12300.00

Estimated Fee in Total: 79967.80

Student: 6

Name: Emily Brown, Birth Year: 1995, Year Enrolled: 2020

Student ID: bro192, Department: Business Administration, Degree: Undergraduate

Residency: Resident

Credits Required: 132, Years to Graduate: 5 Undergraduate Resident: 109.55\*132 = 14460.60

Estimated Fee in Total: 14460.60

Student: 7

Name: David Lee, Birth Year: 2002, Year Enrolled: 2022

Student ID: lee2002, Department: Computer Science, Degree: Undergraduate

Residency: International

Credits Required: 120, Years to Graduate: 4

Undergraduate Non-Resident credit Fee: 317.25\*120 = 38070.00 Undergraduate Non-Resident Year Fee: 18150.10\*4 = 72600.40

Undergraduate Non-Resident Year Insurance Fee: 4100.00\*4 = 16400.00

Estimated Fee in Total: 127070.40

Student: 8

Name: Olivia Clark, Birth Year: 2000, Year Enrolled: 2023

Student ID: cla2023, Department: Computer Engineering, Degree: Undergraduate

Residency: Resident

Credits Required: 125, Years to Graduate: 5 Undergraduate Resident: 109.55\*125 = 13693.75

Estimated Fee in Total: 13693.75

Student: 9

Name: Jack Cox, Birth Year: 1997, Year Enrolled: 2021

Student ID: lee2001, Department: Computer Science, Degree: Graduate

Residency: Resident

Credits Required: 30, Years to Graduate: 3 Graduate Resident: 123.25\*30 = 3697.50

Estimated Fee in Total: 3697.50

Student: 10

Name: Alexander Jones, Birth Year: 2003, Year Enrolled: 2024

Student ID: jon2029, Department: Machine Learning, Degree: Undergraduate

Residency: Resident

Credits Required: 130, Years to Graduate: 5 Undergraduate Resident: 109.55\*130 = 14241.50

Estimated Fee in Total: 14241.50

Student: 11

Name: Hernandez Natalie, Birth Year: 1998, Year Enrolled: 2020 Student ID: nat1920, Department: Cyber Security, Degree: Graduate

Residency: International

Credits Required: 30, Years to Graduate: 2

Graduate Non-Resident credit Fee: 388.75\*30 = 11662.50 Graduate Non-Resident Year Fee: 18150.10\*2 = 36300.20 Graduate Non-Resident Year Insurance Fee: 4100.00\*2 = 8200.00

Estimated Fee in Total: 56162.70

Student: 12

Name: Emily Webb, Birth Year: 2004, Year Enrolled: 2024

Student ID: webb2024, Department: Software Engineering, Degree: Undergraduate

Residency: Resident

Credits Required: 120, Years to Graduate: 6 Undergraduate Resident: 109.55\*120 = 13146.00

Estimated Fee in Total: 13146.00

Student: 13

Name: Alice Johnson, Birth Year: 2000, Year Enrolled: 2020 Student ID: joh2020, Department: Biology, Degree: Undergraduate

Residency: Resident

Credits Required: 120, Years to Graduate: 4 Undergraduate Resident: 109.55\*120 = 13146.00

Updated Calculated Fee: 13146.00

kishore@kishore-ubuntu:/Ast3 F24 v3\$ cat Estimated Fees.txt

Student Fee Calculations:

Student: 1 Name: John Doe

Birth Year: 1999, Year Enrolled: 2024

Student ID: doe1924, Department: Computer Science

Degree: Graduate, Residency: Resident Credits Required: 30, Years to Graduate: 2

Estimated Total: 3697.50

Student: 2

Invalid ID for the student (To file): Jane Smith

Student: 3

Name: Michael Johnson

Birth Year: 2002, Year Enrolled: 2023

Student ID: joh2023, Department: Mechanical Engineering

Degree: Graduate, Residency: International Credits Required: 34, Years to Graduate: 3

Estimated Total: 79967.80

Student: 4

Invalid ID for the student (To file): Emily Brown

Student: 5

Invalid ID for the student (To file): David Lee

Student: 6

Name: Olivia Clark

Birth Year: 2000, Year Enrolled: 2023

Student ID: cla2023, Department: Computer Engineering

Degree: Undergraduate, Residency: Resident Credits Required: 125, Years to Graduate: 5

Estimated Total: 13693.75

Student: 7

Invalid ID for the student (To file): Jack Cox

Student: 8

Invalid ID for the student (To file): Alexander Jones

Student: 9

Name: Hernandez Natalie

Birth Year: 1998, Year Enrolled: 2020

Student ID: nat1920, Department: Cyber Security Degree: Graduate, Residency: International Credits Required: 30, Years to Graduate: 2

Estimated Total: 56162.70

Student: 10

Invalid ID for the student (To file): Emily Webb

kishore@kishore-ubuntu:/Ast3 F24 v3\$