

Screenshot of execution of the application (Data-Reporting Task) (Task2)

The screenshot shows the application window titled "Team T-25: Popular Names" with tabs for Task 0, Task 1, Task 2, Reporting 3, Task 4, Task 5, and Application 3. The "Reporting 3" tab is active, displaying input fields for "Year of Interest(starting year)" (1899), "Year of Interest(ending year)" (2000), "K-th popular names" (6), and "Gender" (Male). Below these fields are buttons for "Summary", "Table", "Bar Chart", and "Pie Chart". A console window is visible at the bottom. A pop-up window titled "K-thPopular Names" is open, displaying a table of popular names with columns: No, Name, Frequency, Occurrences, and Percentage. The table lists 15 names, with Charles at the top and James at the bottom. Below the table, it shows "Total Frequency: 102", "Total Occurrences: 3339615", and "Percentage: 100%".

No	Name	Frequency	Occurrences	Percentage
1	Charles	15	372233	11.0%
2	William	14	730159	22.0%
3	George	14	329786	10.0%
4	David	10	418985	13.0%
5	Joseph	7	28792	1.0%
6	Mark	6	321591	10.0%
7	Nicholas	5	135410	4.0%
8	Robert	5	88785	3.0%
9	John	4	145051	4.0%
10	Daniel	4	138960	4.0%
11	Christopher	3	115645	3.0%
12	Matthew	3	107825	3.0%
13	Brandon	3	87839	3.0%
14	Richard	3	85125	3.0%
15	James	2	75203	2.0%

Total Frequency: 102
Total Occurrences: 3339615
Percentage: 100%

Screenshot of execution of the application (Evidence-Based Recommendation Task) (Task4)

The screenshot shows the application window titled "Team T-25: Popular Names" with tabs for Task 0, Task 1, Task 2, Reporting 3, Task 4, Task 5, and Application 3. The "Task 4" tab is active, displaying the title "Task4: Name recommendation for newborn babies". Below the title are input fields for "Baby's dad Name" (John), "Baby's mom Name" (Mary), "Year of baby's dad birthday" (1977), and "Year of baby's mom birthday" (1899). Below these fields are buttons for "T4X1" and "T4X2". A console window is visible at the bottom, displaying the output: "Robert is the 6-th popular male name in the year 1977." and "Helen is the 2-th popular female name in the year 1899."

Task4: Name recommendation for newborn babies

Baby's dad Name: John
Baby's mom Name: Mary
Year of baby's dad birthday: 1977
Year of baby's mom birthday: 1899

Algorithm: T4X1 T4X2

Console
Robert is the 6-th popular male name in the year 1977.
Helen is the 2-th popular female name in the year 1899.

Unit testing (missing task3 and task6 at 3/5 22:17)

Test Summary

23	0	0	9.628s
tests	failures	ignored	duration

100%

successful

Packages

Classes

Class	Tests	Failures	Ignored	Duration	Success rate
comp3111.popnames.AnalyzeNamesTest	5	0	0	0.173s	100%
comp3111.popnames.JavaFXTest	3	0	0	5.276s	100%
comp3111.popnames.Task1_unitTest	4	0	0	1.096s	100%
comp3111.popnames.Task2Test	5	0	0	1.190s	100%
comp3111.popnames.Task4_unitTest	2	0	0	0.640s	100%
comp3111.popnames.Task5Test	4	0	0	1.253s	100%

Coverage Test (missing task3 and task6 at 3/5 22:17)

comp3111.popnames

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
Controller	<div><div></div></div>	18%	<div><div></div></div>	3%	50	54	250	283	19	23	0	1
PopupWindow	<div><div></div></div>	0%	<div><div></div></div>	0%	9	10	105	107	5	6	0	1
Task1_AnalyzeNames	<div><div></div></div>	40%	<div><div></div></div>	55%	19	30	100	153	7	12	0	1
Task5_PredictionPairsName	<div><div></div></div>	52%	<div><div></div></div>	45%	25	38	46	99	1	5	0	1
AnalyzeNames	<div><div></div></div>	42%	<div><div></div></div>	70%	5	15	26	56	1	5	0	1
Task2_KthPopularNames	<div><div></div></div>	82%	<div><div></div></div>	68%	17	38	18	100	1	8	0	1
Task2Name	<div><div></div></div>	0%	<div><div></div></div>	n/a	12	12	29	29	12	12	1	1
Task4_nameRecommendation	<div><div></div></div>	84%	<div><div></div></div>	20%	13	15	9	45	3	5	0	1
Task5Name	<div><div></div></div>	0%	<div><div></div></div>	n/a	6	6	14	14	6	6	1	1
MyApplication	<div><div></div></div>	0%	<div><div></div></div>	n/a	3	3	11	11	3	3	1	1
Total	2,747 of 4,396	37%	161 of 272	40%	159	221	608	897	58	85	3	10