

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, showing 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 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" displays 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. Summary statistics at the bottom of the pop-up show: 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, showing the "Task4: Name recommendation for newborn babies" interface. It includes 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 are buttons for "T4X1" and "T4X2". A console window at the bottom displays 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 unit test case at 3/5 22:42)

Test Summary

23

tests

0

failures

0

ignored

9.491s

duration

100%

successful

Packages Classes

Class	Tests	Failures	Ignored	Duration	Success rate
comp3111.popnames.AnalyzeNamesTest	5	0	0	0.214s	100%
comp3111.popnames.JavaFXTest	3	0	0	5.204s	100%
comp3111.popnames.Task1_unitTest	4	0	0	1.080s	100%
comp3111.popnames.Task2Test	5	0	0	1.187s	100%
comp3111.popnames.Task4_unitTest	2	0	0	0.603s	100%
comp3111.popnames.Task5Test	4	0	0	1.203s	100%

Coverage Test

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
Controller	<div><div></div></div>	16%	<div><div></div></div>	2%	60	64	293	326	25	29	0	1
Task3Name	<div><div></div></div>	0%	<div><div></div></div>	0%	35	35	127	127	13	13	1	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
Task6Name	<div><div></div></div>	0%	<div><div></div></div>	0%	17	17	38	38	4	4	1	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	3,894 of 5,543	29%	239 of 350	31%	221	283	816	1,105	81	108	5	12