Probability and Statistics (IT302) Lab Program -2

Assume that the four inspectors at a film factory are supposed to stamp the expiration date on each package of film at the end of the assembly line. John, who stamps **U%** of the packages, fails to stamp the expiration date once in every **A** packages; Tom, who stamps **V%** of the packages, fails to stamp the expiration date once in every **B** packages; Jeff, who stamps **W%** of the packages, fails to stamp the expiration date once in every **C** packages; and Pat, who stamps **X%** of the packages, fails to stamp the expiration date once in every **D** packages. If a customer complains that package of film does not show the expiration date what is the probability that it was inspected by John? Use any one of the programming language C/python/java/C++ to write a program to compute the probability that it was inspected by John? Display intermediate results as well as final result on the terminal. Further, store the same on separate output file. Program should consider only the valid run-time inputs and it should be terminated by displaying an error message onto the terminal for invalid input and also the same should be stored on separate output file as similar valid test case.

Note: This program description for four inspectors. However, program should consider "N' number of inspectors and their name during run-time.

Sample Text Cases

- N =4
- Name of the Inspectors: John, Tom, Jeff and Pat
- U=10%, V=20%, W=30%, X=40%, A=100, B=200, C=100, D=100

Email subject should be PAS(IT302)-Lab-Program-2-Related-Files

File name of the program	:	RegisterNo_IT302_P2
		(P2 indicates Lab Program Number-2)
File name of the screenshot	:	RegisterNo_IT302_P1_TCS1

(TCS1 indicates screenshot for the first test case, similarly, for other test cases TCS2, TCS3, TCS4, TCS5, TCS6)

File name of the Output File	:	RegisterNo_IT302_P1_Output_TC1.txt

(TC1 indicates output for the first test case, similarly, for other test cases TC2, TC3, TC4, TC5, TC6)

Date of Online Laboratory	:	17th August 2020, Monday
Deadline of Submission	:	17th August 2020, Monday (on or before 6:00PM)

Submit program file, all screenshots and all output files (output.txt) to the Email ID mentioned against the student name.

Note:

- Clarify the doubt(s) (if any) only on 17th August 2020 Monday at 2:30PM - 2:45PM.
- No/Zero marks for incomplete submission/late submission/incomplete program.

Sl. No.	Register No.	Name of the Student	Email ID
1	181067181IT102	Adarsh Naidu	
2	181722181IT103	Ajay R Bharadwaj	
3	181010181IT104	Akshith Nettar Mahalinga	
4	181260181IT105	Amith Bhat Nekkare	
5	181271181IT106	ANIRUDDH RAVICHANDAN PATIL	Email to
6	181523181IT107	Ankit gupta	
7	181110181IT108	ASIS KUMAR ROUT	anjaliagrawal.192it001@nitk.edu.in
8	181049181IT109	Ayush Ashok Rahangdale	
9	181427181IT110	Badavath Sagar Babu	
10	181220181IT111	Bhagyashri Nilesh Bhamare	
11	181066181IT112	C SNEHA	
12	181274181IT113	Chinmayi Chikkaagrahara Ramakrishna	
13	181341181IT114	DEBABRAT PARIDA	Corban Copy (CC) to
14	181099181IT115	Dolly Gupta	
15	181292181IT116	Girish Jeswani	probabilitystati@gmail.com
16	181635181IT117	Harsh Agarwal	
17	181681181IT118	Hp srushti	
18	181608181IT119	Jaidev Chittoria	
19	181849181IT120	JAYAKRISHNAN B	
20	181163181IT121	josson joe thoppil	
21	181475181IT122	KAVALAKUNTLA VARA PRASAD	
22	181272181IT123	Kotla Karthik Reddy	
23	181492181IT124	Krithik Muralidhar Vaidya	
24	181017181IT125	Laharish S	
25	181299181IT126	Mansi saxena	
26	181352181IT127	Meghna Suraj Kashyap	Email to
27	181052181IT128	Mohith R	
28	181876181IT129	Naman Vijayvargiya	
29	181570181IT130	Neil Paresh Poonatar	swathinitkit@gmail.com
30	181324181IT131	Nithya Manoj	
31	181516181IT132	P AKSHARA	
32	181198181IT133	Prajna N Hebbar	Corban Copy (CC) to
33	181189181IT134	Prasad Bapu Jagtap	
34	181082181IT135	Priyanka B G	probabilitystati@gmail.com
35	181074181IT136	Raj Kishore Sethi	
36	181431181IT137	RAVI PRAKASH	
37	181439181IT138	ROHIT KUMAR SAHU	
38	181375181IT139	Rushikesh Kailas Pawar	
39	181436181IT140	Sagar Choudhury	
40	181762181IT141	Sarthak Laghate	

Sl. No.	Register No.	Name of the Student	Email ID
41	181481181IT143	Sheel Lohia	
42	181101181IT144	Shivamani Santosh Patil	
43	181161181IT145	Shraddha Gole	
44	181874181IT146	Siddharth Pokharna	
45	181168181IT147	Sujan Reddy A	
46	181632181IT148	Sunil kumar	
47	181128181IT149	T SHIVAPRASAD NAYAK	Email to
48	181276181IT150	Udbhav Bisarya	
49	181438181IT151	V R SANDEEP	madhusmitadas.nitk@gmail.com
50	181357181IT152	vishwajit kumar singh	
51	181270181IT153	YASH Kumar Gupta	
52	181403181IT154	Ashok Bhobhiya	Corban Copy (CC) to
53	181875181IT201	Abhishek Kaswan	
54	181402181IT202	Adharsh Kamath	probabilitystati@gmail.com
55	181181181IT203	Akashdeep S	
56	181407181IT205	Animesh Anand	
57	181124181IT206	Aniruddh Sujish	
58	181265181IT207	ARYA SHARMA	
59	181568181IT208	Atharv Rajesh Belagali	
60	181625181IT209	AYUSH BHANDARI	
61	181620181IT211	BHAJAN KUMAR BARMAN	
62	181238181IT212	Channamallikarjuna	
63	181803181IT214	Dhanuka Deep Manoj	
64	181091181IT215	Gagandeep K N	
65	181487181IT216	Gutla Gayathri	
66	181058181IT217	Harshvardhan R	Email to
67	181190181IT218	HRITWIK ARYA	
68	181418181IT219	Jay Rajesh Agrawal	al.jrshruti1205@nitk.edu.in
69	181221181IT220	Jeeukrishnan Kayshyap	
70	181697181IT221	K Keerthana	
71	181280181IT223	krishna poojitha vantakula	
72	181061181IT224	KUMSETTY NIKHIL VENKAT	Corban Copy (CC) to
73	181406181IT225	M SHIVA KRISHNA	
74	181414181IT226	MD ALTAF HUSSAIN	probabilitystati@gmail.com
75	181119181IT227	Mithas Kumar	
76	181211181IT228	MUKESH KUMAR	
77	181726181IT229	Narendra	
78	181784181IT230	Nirmal Harshal Khedkar	
79	181302181IT231	Olan Shawn Pinto	
80	181034181IT232	Piyush Dilip Ingale	

Sl. No.	Register No.	Name of the Student	Email ID
81	181579181IT233	Prakriti Goyal	
82	181512181IT234	prithvi raj patil	
83	181471181IT235	R Karthik	
84	181369181IT236	Raju Kumar	
85	181383181IT237	Ritik Shaileshbhai Pansuriya	
86	181326181IT238	Royce George Philip	Email to
87	181413181IT239	S SHUSHAL	
88	181459181IT240	Samarth S Hadimani	ramanahallishruthi.192it016@nitk.edu.in
89	181474181IT241	Seema G	
90	181096181IT242	Shashikantha	
91	181535181IT243	Shidharth S	
92	181207181IT244	Shonali K S	
93	181424181IT246	Sriram Rao Udupi	Corban Copy (CC) to
94	181451181IT247	Sumit Gupta	
95	181343181IT248	SURAJ SUTHAR	probabilitystati@gmail.com
96	181038181IT249	tentu venkat tanmaiyh	
97	181575181IT250	Utkarsh Sudhir Meshram	
98	181009181IT251	Vaibhav Puri	
99	181311181IT252	Vishwas Dipen Parekh	
100	181672181IT253	Yash Parakh	
101	181047181IT254	Hima Sajeev	