

Coding Test

Instructions:

Duration: 1 hours

- Free to use Programming Software R or Python.
- Make necessary Assumption's wherever needed (Mention assumption in comments).
- Save the code as **.R** or **.py file**
- Save output as .csv or .xlsx file for each problem

Problem 1: Employee History

Data – Refer “Employee.xlsx”

Employee data of Organization XYZ

DOJ – Date of joining

DOL- Date of leaving (Blank means Employee has not left)

Calculate the following

1. Total no of employee (organization size) at each year end
2. Average employee Tenure at each year end
3. Attrition rate for each year (total no employee left in year / Total employee at year end)
4. For each employee match email with first name and last name to get score for match to authenticate email belongs to person

Output format

Year	# of Employee	Avg Tenure	Attrition rate
2010	X	X	X
2011	X	X	X
2012	X	X	X
2013	X	X	X
2014	X	X	X
2015	X	X	X
2016	X	X	X
2017	X	X	X
2018	X	X	X

Employee	email match score
1	0.8
2	0.2
:	
:	
999	0.6
1000	0.7

Problem 2: Cricket Commentary

Data – Refer “Commentary.txt”

Text file has commentary of a cricket match for India batting in descending order of balls delivered

Calculate following

1. List balls(delivery) when “Four” runs were scored and extract batsman and bowler for the same
2. List balls(delivery) when “Yorker” was bowled and extract batsman and bowler for the same

Output format for both problems

Delivery	Batsman	Bowler
17.5	Virat Kohli	Morne Morkel
:	:	:
:	:	: