**IPO chart:**

|  |  |  |
| --- | --- | --- |
| Input: | Processing: | Output: |
| Text file containing employee last names and salaries. | Define a function calculateBonusRate to determine the bonus rate based on the salary.  Initialize a variable totalBonuses to keep track of the total bonus amount.  Open and read the data from the input file.  Read and process each pair of lines in the file:  a. Extract the employee's last name as lastname.  b. Extract the employee's salary as salary (a floating-point number).  c. Calculate the bonus rate for the employee's salary using the calculateBonusRate function, storing it as bonusRate.  d. Calculate the bonus amount and store it as bonus.  e. Display the employee's last name, salary, and bonus.  f. Add the bonus to the totalBonuses variable. | For each employee, display the last name, salary, and bonus.  After processing all employees, display the total bonuses paid out as Total Bonuses Paid Out. |

**Code:**

def calculateBonusRate(salary):

if salary >= 100000.00:

return 0.20

elif salary == 50000.00:

return 0.15

else:

return 0.10

totalBonuses = 0

with open("employee\_data.txt", "r") as file:

lines = file.readlines()

i = 0

while i < len(lines):

lastName = lines[i].strip()

salary = float(lines[i+1].strip())

bonusRate = calculateBonusRate(salary)

bonus = salary \* bonusRate

print(f"Last Name: {lastName}")

print(f"Salary: ${salary:,.2f}")

print(f"Bonus: ${bonus:,.2f}")

print()

totalBonuses += bonus

i += 2

print(f"Total Bonuses Paid Out: ${totalBonuses:,.2f}")

**File with data:**

Adams

50000.00

Baker

75000.00

Smith

45000.00

Jack

8000.00

Robert

10000.00