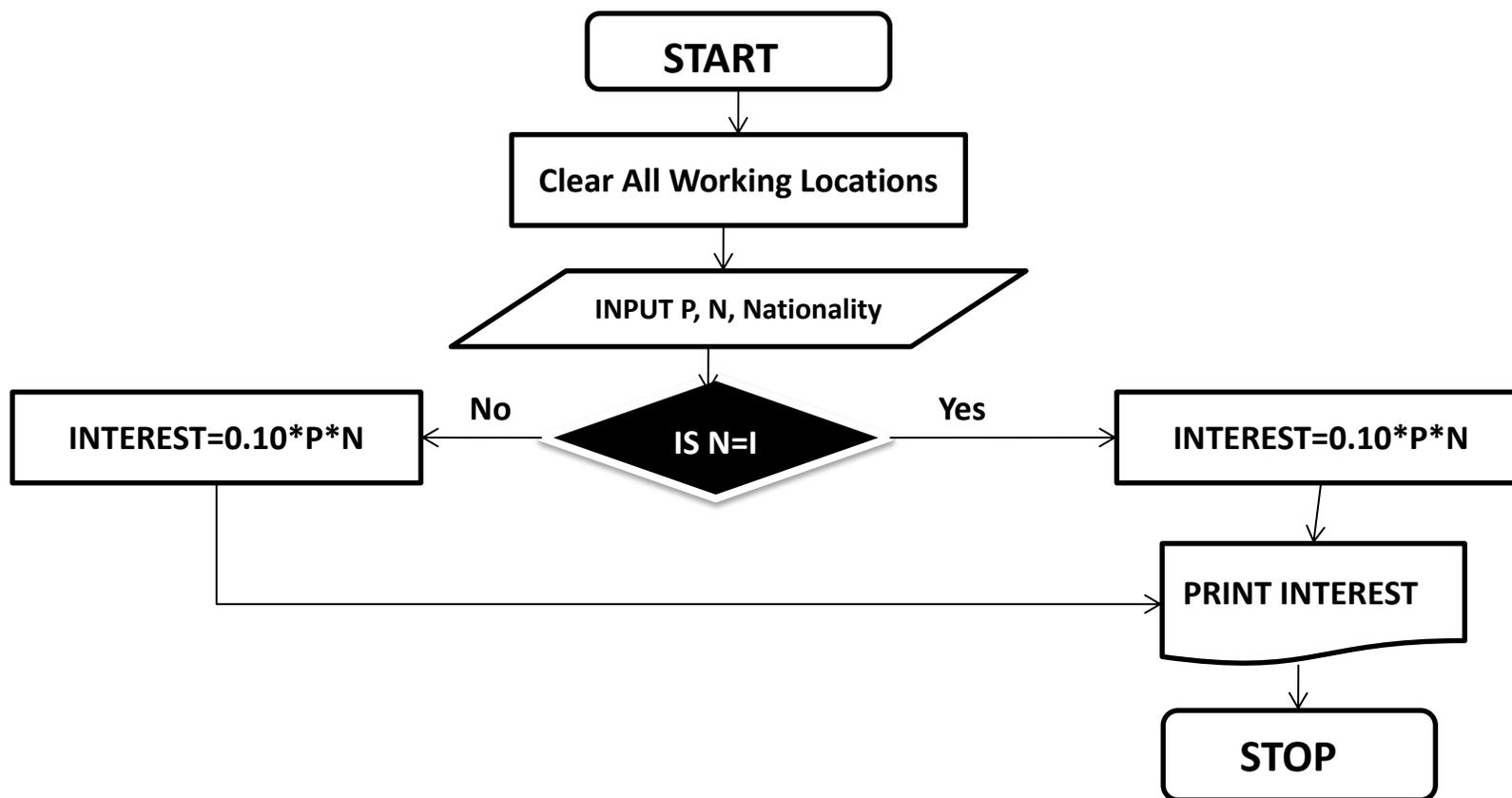


FLOWCHART

1. Draw a Flow chart to compute simple interest where rate of interest for Indians 10% and otherwise 20 %



2

A company ABC Ltd. Is engaged in selling consumer goods to different categories of customers. In order to increase its sales, different types of discounts are offered to customers. The policy of discount is as given below:

(i) On cooking range, a discount of 12% is allowed to dealers and 9% to retailers irrespective of the value of the order

(ii) A discount of 12% is allowed on washing machine irrespective of the category of customer and the value of the order

(iii) On decorative products, dealers are allowed a discount of 20% provided that the value of order is 10,000 and above. Retailers are allowed a discount of 10% irrespective of the value of the order

draw a flowchart to calculate the discount for the above policy

Cust=Customer

Prod=Product

Amt=Amount

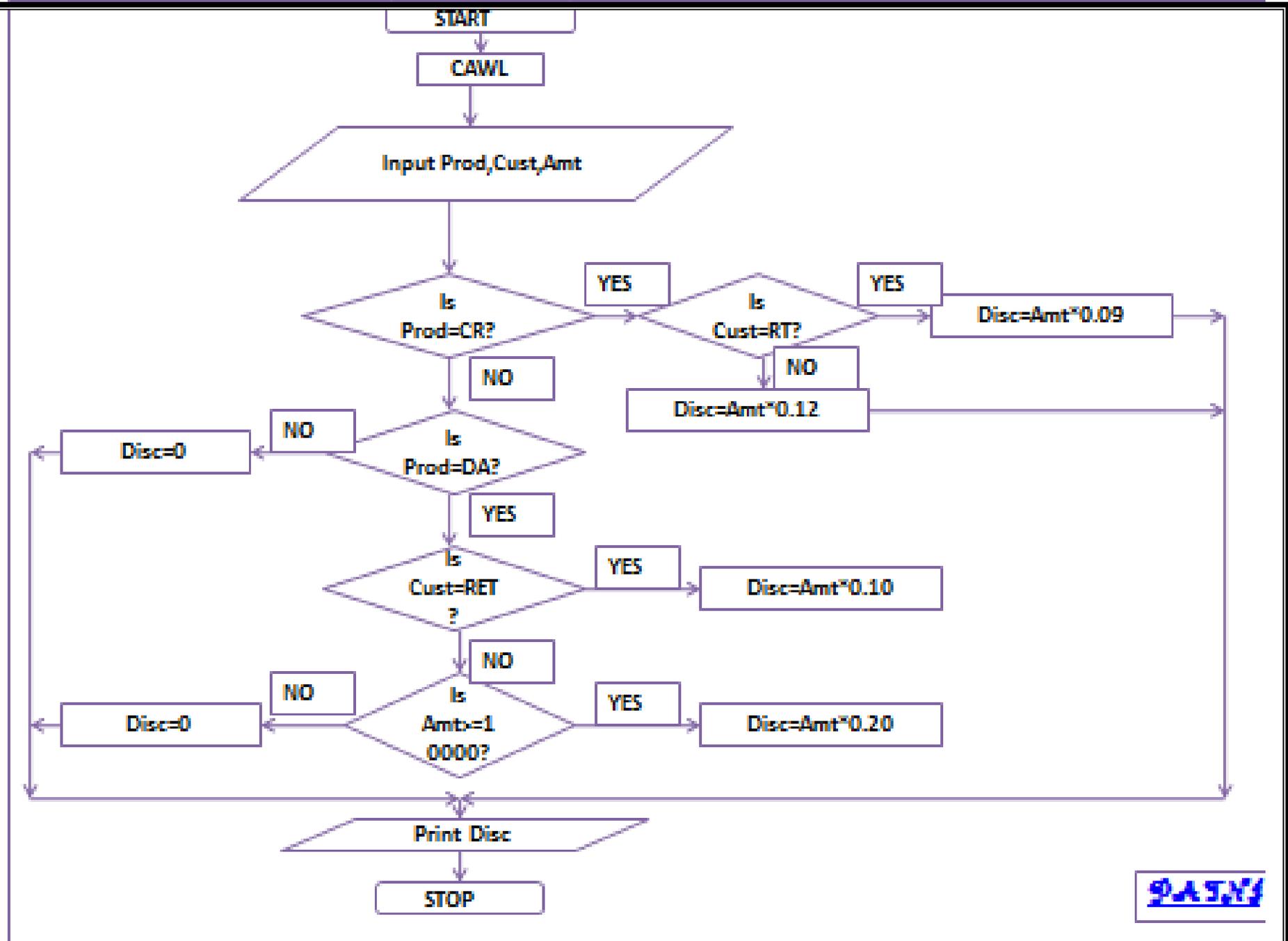
Disc=Discount

WM=Washing Machine

CR=Cooking range

DP=Decorative Product

RT=Retailer



Question 1

An electric supply company charges the following rates from its consumers

No. of Unit consumed	Charges/unit (Rs.)
For the first 200 units	2.50
For the next 300 units	3.50
Over 500 units	5.00

Computer database of the company has the following information :

- 1) Consumer name
- 2) Address
- 3) Unit consumed
- 4) Bill Date
- 5) Payment date

if the consumer pays his bill within 15 days from the bill date,10% discount is given.

If he makes the payment after 15 days from the bill date,5 % surcharge is levied . Draw a flow chart to calculate the net amount of the bill for each consumer and print it.

Question 2

A bicycle shop in a city hires bicycles by the day at different rates for different models as given below

Model no	Hire rate per day(Rs.)
Model No.1	14.00
Model No.2	12.00
Model No.3	10.00

In order to attract customers , the shopkeeper gives a discount on the number of days a bicycle is hired for .The policy of discount is as given below

<i>No.of days</i>	<i>Discount Rate(%)</i>
<i>1-5</i>	<i>0.00</i>
<i>6-10</i>	<i>8</i>
<i>11 and over</i>	<i>15</i>

For every bicycle hired a deposit of Rs.30.00 must be paid. Develop a flow chart to print out the details for each customer such as name of the customer , bicycle model number , number of days a bicycle is hired for , hire charges , discount and total charges including deposits

Question 3

A book publisher offers discount to customers on the basis of customer type and number of copies ordered as shown below

<i>Customer type</i>	<i>Number of Copies Ordered</i>	<i>% of discount</i>
<i>Book Seller</i>	<i>More than 10</i>	<i>25</i>
	<i>Less than or equal to 10</i>	<i>15</i>
<i>Library</i>	<i>More than 5</i>	<i>20</i>
	<i>Less than or equal to 5</i>	<i>10</i>

Customer number , name , type , book number , number of copies ordered and unit price are given as input . Draw a flow chart to calculate the net amount of the bill for each customer and print it . The above is to be carried out for 50 customers.

Question 4

Draw a Flowchart to compute and print income tax, surcharge and education cess on the income of a person, where income is to be read from terminal and tax is to be calculated as per the following rates:

Slab(Rs)	Rate
(1)1 to 1,00,000	No Tax
(2)1,00,001 to 1,50,000	@10% amt above 1,00,000
(3)1,50,001 to 2,50,000	Rs 5000 + 20% of amt above 1,50,000
(4)2,50,001 onwards	Rs 25,000 + 30% of Amt above 2,50,000
Surcharge	@10% on the amount of total tax, if income of a person exceeds Rs.10,00,000
Education cess	2% on the total tax

Question 5

The goods imported from the foreign countries are classified into four categories for the purpose of levying custom duty. The rate of custom duty on value of goods ‘V’ for each category is given below:

Category (k)	Types Of Goods	Custom Duty (%)
1.	Electronic items	10
2.	Heavy machinery	15
3.	Footwear items	20
4.	All Other Uncategorized items	25

Draw a flow chart to compute appropriate custom duty including educational cess at the rate of 3% of the value of custom duty

Question 6

A book publisher of accounts and computer books offer discounts to customers on the basis of customer type and subject as detailed below:

Customer Type	Subject	Discount (%)
Book Seller	Accounts	10
	Computer	20
Library	Accounts	5
	Computer	10

if number of copies purchased is more than 10, then additional discount of 2% is allowed irrespective of the customer type and subject

it is also assumed that there are 25 customers and complete details of each customer like customer name, type, subject, number of copies and unit price is required to be entered through the console

draw a program flowchart to calculate and print the net amount paid by each customer along with customer name. also print the total discount allowed to all the customers

Question 7

A laborer in a manufacturing company gets his wage as per following calculations:

Basic Pay= $10 * N$ If $N \leq 10$
 = $12 * N$ If $N \leq 15$
 = $15 * N$ If $N > 15$

He is also awarded a quality related bonus as per following norms:

if $QI \leq 0.5$ Bonus=0.0
 if $QI \leq 0.75$ Bonus=10% of basic pay
 if $QI \leq 0.9$ Bonus=20% of basic pay
 if $QI > 0.9$ Bonus=30% of basic pay

where N = number of items manufactured

QI = Quality index

for the above conditions, draw a flow chart to calculate and print basic pay, bonus and total pay received by the laborer

Question 8

A firm has 200 employees. Their salaries are divided in four categories as under:

- (i) Less than Rs.2,000
- (ii) Rs.2,000 to Rs.4,000
- (iii) Rs. 4,001 to Rs.5,000
- (iv) Above Rs.5,000

draw a program flowchart for finding the percentage of employees in each category

Question 9

Draw flow chart to compute and print income-tax and surcharge on the income of the individual, the income is to be read from terminal and tax is to be calculated as per the following rates:

Income(in RS.)	Rate
Up to 50,000	No tax
From 50,001 to 60,000	@10% of amount above Rs. 50,000
From 60,001 to 1,50,000	1000+20%of amount above Rs. 60,000
Above Rs. 1,50,000	Rs.19,000+30%of amount above Rs.1,50,000

charge surcharge @5% on the amount of total tax, if the income of a person exceeds Rs.60,000

Question 10

An electricity distribution company has three categories of consumers namely

- (i) Domestic
- (ii) Commercial

- (iii) Industry

The charges of electricity per unit consumed by these consumers are Rs.3, Rs.4 and Rs.5 respectively. The computer Database of the company has the following information:

Consumer's name

Category

Units consumed

Bill date

Date of payment

The company processes bills according to the following criterion. If the consumer is domestic and pays bill within 10 days of the bill date 5% discount is given. If he pays the bill within 15 days, no discount is given. If he makes the payment after 15 days of the bill date, 10% surcharge is levied. For the non-domestic consumers (commercial or industry), corresponding percentages be 10%, 0% and 15% respectively

draw a flow chart to calculate the bill amount, discount, surcharge and net amount of the bill for each type of consumer and print it.

Question 11

A bank has 500 employees. The salary aid to each employee is sum of his basic pay, dearness allowance and house rent allowance. For the purpose of computing house rent allowance bank has classified his employees into three classes A, B and C. The house rent allowance for each class is computed at the rate of 30%, 20% and 10% of the basic pay respectively. The dearness allowance is computed at a flat rate of 60% of the basic pay.

Draw a flowchart to determine the percentage of employee falling in the each of the following salary slab:

- (i) above Rs.30,000
- (ii)Rs.15,001 to Rs.30,000
- (iii)Rs.8,001 to Rs.15,000
- (iv)Less than or equal to Rs.8,000

Question 12

Input name & basic salary for 100 employees. Each employee contributes 10 % of basic salary towards provident fund. Find and print the name , P.F. contribution made by each employee. Also print the total contribution of all employees

Question 13

A bank has 500 employees. The salary aid to each employee is sum of his basic pay, dearness allowance and house rent allowance. For the purpose of computing house rent allowance bank has classified his employees into three classes A, B and C. The house rent allowance for each class is computed at the rate of 30%, 20% and 10% of the basic pay respectively. The dearness allowance is computed at a flat rate of 60% of the basic pay.

Draw a flowchart to determine the percentage of employee falling in the each of the following salary slab:

- (i) above Rs.30,000
- (ii)Rs.15,001 to Rs.30,000
- (iii)Rs.8,001 to Rs.15,000
- (iv)Less than or equal to Rs.8,000