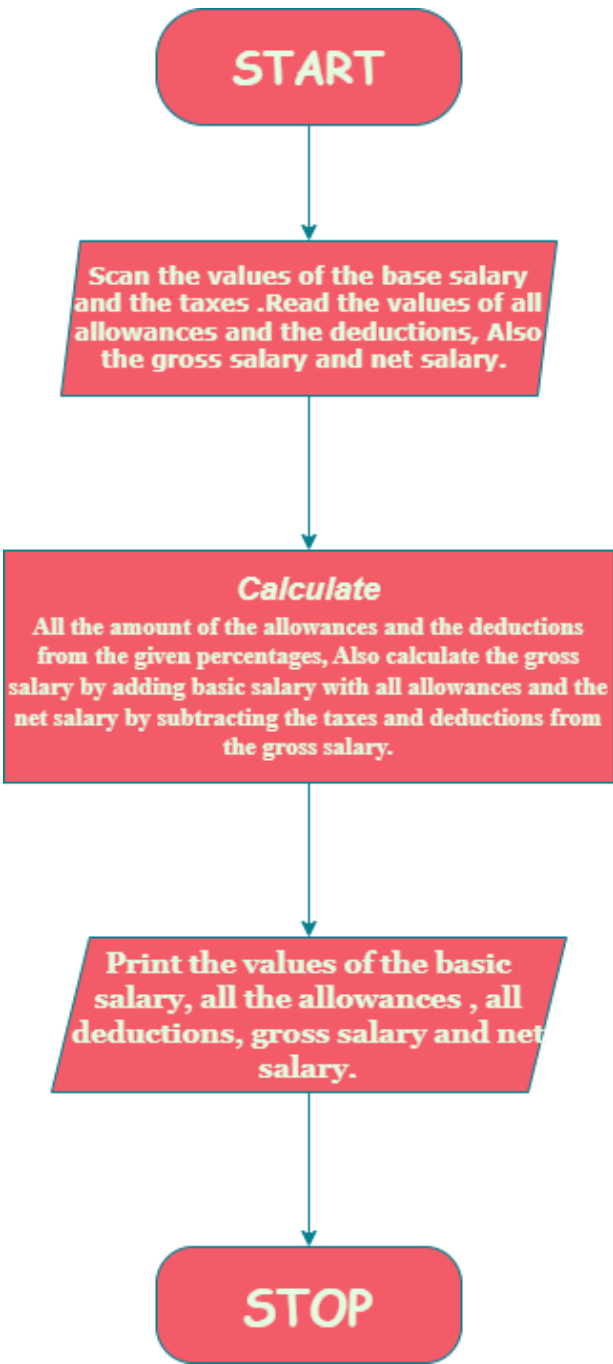


	<b>Practical 2</b>
<b>Program 2.1</b>	In a town, the percentage of men is 52. The percentage of total literacy is 48. If total percentage of literate men is 35 of the total population, write a program to find the total number of illiterate men and women if the population of the town is 80,000.
<b>Flowchart</b>	<pre> graph TD     Start([START]) --&gt; Read[/Read the values for Total Population, Number of Men, Number of Women, Number of Literate, Number of Literate Men, Number of Literate Women, Number of illiterate Men, Number of illiterate Women/]     Read --&gt; Process[Number_of_Men=Total_Population*(0.52); Number_of_Women=Total_Population-Number_of_Men; Number_of_Literate_Men=Total_Population*(0.35); Number_of_Literate=Total_Population*(0.48); Number_of_Literate_Women=Number_of_Literate- Number_of_Literate_Men; Number_of_illiterate_Men=Number_of_Men- Number_of_Literate_Men; Number_of_illiterate_Women=Number_of_Women- Number_of_Literate_Women;]     Process --&gt; Print[/Print the value of Total Population, Number of Men, Number of Women, Number of Literate, Number of Literate Men, Number of Literate Women, Number of illiterate Men, Number of illiterate Women/]     Print --&gt; Stop([STOP]) </pre>
<b>Algorithm</b>	<p>Step 1: Start</p> <p>Step 2: Read all the parameters found using total population.</p> <p>Step 3: Using total population find all the parameters asked.</p> <p>Step 4: Print all the parameters found using total population.</p> <p>Step 5: Stop</p>

Code	<pre> //This Program is Prepared by 23CS041_DHRUV_LOKADIYA/ #include&lt;stdio.h&gt; int main() {     int Total_Population=80000,Number_of_Literate,Number_of_Men,Number_of_Literate_Men,     Number_of_illiterate_Men,Number_of_Women,Number_of_Literate_Women,Number_of_illiterate_Women;      Number_of_Men=Total_Population*(0.52);     Number_of_Women=Total_Population-Number_of_Men;     Number_of_Literate_Men=Total_Population*(0.35);     Number_of_Literate=Total_Population*(0.48);     Number_of_Literate_Women=Number_of_Literate-Number_of_Literate_Men;     Number_of_illiterate_Men=Number_of_Men-Number_of_Literate_Men;     Number_of_illiterate_Women=Number_of_Women-Number_of_Literate_Women;      printf("\n Sr.No. \t Get Outcome \t\t\t Value");     printf("\n 1 \t Total_Population \t\t\t %d", Total_Population);     printf("\n 2 \t Number_of_Literate \t\t\t %d", Number_of_Literate);     printf("\n 3 \t Number_of_Men \t\t\t %d", Number_of_Men);     printf("\n 4 \t Number_of_Literate_Men \t\t %d", Number_of_Literate_Men);     printf("\n 5 \t Number_of_illiterate_Men \t\t %d", Number_of_illiterate_Men);     printf("\n 6 \t Number_of_Women \t\t\t %d", Number_of_Women);     printf("\n 7 \t Number_of_Literate_Women \t\t %d", Number_of_Literate_Women);     printf("\n 8 \t Number_of_illiterate_Women \t\t %d",int main::Number_of_Literate_Women);     printf("\n 23CS041_CS1");     return 0; } </pre>
Output	<pre> Sr.No.      Get Outcome      Value 1      Total_Population      80000 2      Number_of_Literate      38400 3      Number_of_Men      41600 4      Number_of_Literate_Men      28000 5      Number_of_illiterate_Men      13600 6      Number_of_Women      38400 7      Number_of_Literate_Women      10400 8      Number_of_illiterate_Women      28000 23CS041_CS1 </pre>
Questions	<p>1. Has this scenario helped you learn about integer and float datatype? If yes, then mention the requirements of using integer and float data types.</p>
Answer	<p>Yes, it helped me to understand variable declaration and the use of float data type .</p>
Program 2.2	<p>Write a program to calculate Net Salary. User has to input Basic Salary and Output should be: Enter Basic Salary: 5000 (e.g. 5000) Allowances:          DA = 70% of Basic Salary          HRA = 7% of Basic Salary          MA = 2% of Basic Salary TA = 4% of Basic Salary Deduction:          PF = 12% of Basic Salary          IT = any value (e.g. 500)</p>

<b>Flowchart</b>	 <pre>graph TD; Start([START]) --&gt; Input[/Scan the values of the base salary and the taxes .Read the values of all allowances and the deductions, Also the gross salary and net salary./]; Input --&gt; Process[Calculate All the amount of the allowances and the deductions from the given percentages, Also calculate the gross salary by adding basic salary with all allowances and the net salary by subtracting the taxes and deductions from the gross salary.]; Process --&gt; Output[/Print the values of the basic salary, all the allowances , all deductions, gross salary and net salary./]; Output --&gt; Stop([STOP]);</pre>
<b>Algorithm</b>	<p>Step1: Start Step2: Enter your basic salary Step3: Calculate all amounts using the formulas given Step4: Print all the values calculated Step5: Stop</p>

Code	<pre> /This is Prepared by 23CS041_DHRUV_LOKADIYA/ #include&lt;stdio.h&gt; int main() {     float Basic_salary, DA, HRA, MA, TA, PF, IT, Gross_salary, Net_salary, Allowances, Deduction;      printf("\n Enter Your basic salary: ");     scanf("%f",&amp;Basic_salary);      DA=Basic_salary*(0.7);     HRA=Basic_salary*(0.07);     MA=Basic_salary*(0.02);     TA=Basic_salary*(0.04);      PF=Basic_salary*(0.12);     IT=Basic_salary*(0.18);      Allowances=DA+HRA+MA+TA;     Deduction=PF+IT;      Gross_salary=Basic_salary+Allowances;     Net_salary=Gross_salary-Deduction;      printf("\nSr.No. \t\t Input/Outputs \t\t\t Ammount");     printf("\n 1 \t\t Basic salary \t\t\t %f",Basic_salary);     printf("\n 2 \t\t DA of Basic salary \t\t %f",DA);     printf("\n 3 \t\t HRA of Basic salary \t\t %f",HRA);     printf("\n 4 \t\t MA of Basic salary \t\t %f",MA);     printf("\n 5 \t\t TA of Basic salary \t\t %f",TA);     printf("\n 6 \t\t PF of Basic salary \t\t %f",PF);     printf("\n 7 \t\t Gross salary \t\t\t %f",Gross_salary);     printf("\n 8 \t\t Net salary \t\t\t %f",Net_salary);     printf("\n 23CS041_CS1");     return 0; } </pre>
Output	<pre> Enter Your basic salary: 20000  Sr.No.      Input/Outputs      Ammount 1           Basic salary      20000.000000 2           DA of Basic salary  14000.000000 3           HRA of Basic salary  1400.000000 4           MA of Basic salary   400.000000 5           TA of Basic salary   800.000000 6           PF of Basic salary   2400.000000 7           Gross salary        36600.000000 8           Net salary          30600.000000 23CS041_CS1 </pre>
Question	<p>1. Have you learned about various data types that can be suitably used for this problem? Do mention which data types can be used and why? Also mention the difference between the outputs.</p>
Answer	<p>The other data type that can be used is integer . The difference in the output it will give is the values after decimal point will not be shown.</p>

Sign:

Grade: