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FUNDAMENTAL PROGRAMS

Sl. No.	Question
1	Write a program to take input of one number and display it on the monitor.
2	Write a program to take input of two numbers and perform all arithmetic operations on them.
3	Take input of number of feet and convert into inches and display
4	Take input of Number of inches and display its equivalent number feet.
5	Take input of temperature in centegrade and convert into fahrenheit and display.
6	Take input of temperature in fahernheit and convert into centegrade and display.
7	Display your name and address (line by line)
8	Take input of a two digit number and display in reverse order.
9	Take input of a three digit number and display in reverse order.
10	Take input of a number and display its square
11	Take input of a number and find out its square root of that number. (hint : use sqrt() pre-defined function... open google and search for that function and link its library and use)
12	Take input of 2 shortest sides of a right angle triangle and findout the length of third side
13	Take input of 2 sides of a rectangle and findout its circumference
14	Take input of 2 sides of a rectangle and findout its area
15	Take input of a side of a square and findout its circumference
16	Take input of a side of a square and findout its area
17	Take input of radius of a circle and findout its circumference ($2 \text{ PI } r$)
18	Take input of a side of a circle and findout its area ($\text{PI } r^2$)
19	Take input of principle amount, rate of interest and time, calculate simple interest.
20	Write a program to take input of your name and display.

USE IF-ELSE BRANCHING FOR THESE PROGRAMS

Sl. No.	Question
1	Take input of name and age, and display whether the person is eligible for voting or not.
2	Take input of two numbers and find out biggest of two numbers.
3	Take input of two integers and find out the biggest of two numbers with out using comparision operators.
4	Take input of three numbers and find out biggest of three.

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5	Take input of a number and find out whether it is an even number or not.												
6	Take input of a three digit number and find out whether it is a palindrome or not.												
7	Take input of a three digit number and find out whether it is an armstrong number or not.												
8	Take input of money you have and display whether you can go to movie or not.												
9	Take input of year and find out whether it is a leap year or not.												
10	Write a program for finding whether given number is an odd number or not.												
11	Write a program to take input of name, gender and age and display whether the person is minor or major.												
12	<p>Take input of student's no, name and marks in six subjects, sum the marks and display following messages as per the percentage.</p> <table border="1"> <thead> <tr> <th>Percentage</th> <th>Message to be displayed</th> </tr> </thead> <tbody> <tr> <td>> 35 %</td> <td>III class</td> </tr> <tr> <td>>50 %</td> <td>II class</td> </tr> <tr> <td>> 60 %</td> <td>I class</td> </tr> <tr> <td>>75 %</td> <td>Distinction</td> </tr> </tbody> </table>	Percentage	Message to be displayed	> 35 %	III class	>50 %	II class	> 60 %	I class	>75 %	Distinction		
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13	<p>Take input of Electricity meter number, starting reading and ending reading, and calculate billing as follows.</p> <table border="1"> <thead> <tr> <th>Total Units</th> <th>Tarrif in Rs. per unit</th> </tr> </thead> <tbody> <tr> <td>< 100 units</td> <td>1.40 Ps.</td> </tr> <tr> <td>< 200 units</td> <td>2.75 Ps.</td> </tr> <tr> <td>< 400 units</td> <td>3.50 Ps.</td> </tr> <tr> <td>>400 units</td> <td>5.00Ps.</td> </tr> </tbody> </table>	Total Units	Tarrif in Rs. per unit	< 100 units	1.40 Ps.	< 200 units	2.75 Ps.	< 400 units	3.50 Ps.	>400 units	5.00Ps.		
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14	<p>Take input of Sales Executive No, Name and sales performed. Calculate his commission as per following rates.</p> <table border="1"> <thead> <tr> <th>Sales Performed in Rs.</th> <th>Rate of Commission</th> </tr> </thead> <tbody> <tr> <td>between 100 and 1000</td> <td>8 %</td> </tr> <tr> <td>between 1001 and 3000</td> <td>13 %</td> </tr> <tr> <td>between 3001 and 7000</td> <td>17 %</td> </tr> <tr> <td>between 7001 and 10000</td> <td>20 %</td> </tr> <tr> <td>more than 10000</td> <td>25 %</td> </tr> </tbody> </table>	Sales Performed in Rs.	Rate of Commission	between 100 and 1000	8 %	between 1001 and 3000	13 %	between 3001 and 7000	17 %	between 7001 and 10000	20 %	more than 10000	25 %
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15	Write a program to swap two numbers if the first number is bigger. (note: take help of a third variable)												
15	Write a program to swap two numbers if the first number is smaller with out using the third variable.												
16	Take input of a single character and display whether it is an vowel or consonent.												
17	Take input of the sequence number of day and display its equivalent day of the week.												
18	Take input of a number between 1- 12 and display its corresponding month.												

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19	Take input of name and age of a student and display whether, which game he is authorised to play.					
	Age group	Game permitted to play.				
	Less than 16	No games				
	between 16 and 20	Cricket				
	between 21 and 22	Boxing				
	between 23 and 25	Foot ball				
	above 30	No Games.				
20	Take input of Employee's number name and salary. Calculate HRA,TA, DA, Tax, GPF, Gross salary and net salary as per following tarrifs:					
	Basic Salary	TA	DA	HRA	TAX	GPF
	< 5000	15%	20%	25%	0 %	12%
	< 12000	18%	24%	30%	8%	15%
	< 18000	21%	27%	35%	16%	20%
> 18000	24%	30%	38%	20%	25%	

USE WHILE, FOR AND DO-WHILE LOOPS FOR THESE PROGRAMS

Sl. No.	Question
1	Write a program to display numbers from 0 to 20.
2	Write a program to display even numbers from 0 to 20.
3	Write a program to display Odd numbers from 0 to 20.
4	Write a program to display multiplication table.
5	Write a program to display multiples of 3 between 1 to 50
6	Write a program to display numbers from 1 to 50 by skipping multiples of 5
7	Write a program to find out whether given number is a palindrome or not.
8	Write a program to display where given number is an armstroing number or not.
9	Write a program to find out sum of n terms.
10	Write a program to display factorial of n terms.
11	Write a program to display whether given number is prime or not. (develop atleast two logics)
12	Write a program to display stars like <pre> * * * * * * * * * * * * * * * *</pre>

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19	Write a program to display prime numbers between 1 to 100.
20	Write a program to display prime numbers between given numbers
21	Write a program to display Palindromes between given numbers
22	Write a program to display armstrong numbers between given numbers.
23	Write a program to display numbers in following fashion: 7 8 9 4 5 6 1 2 3
24	Write a program to display all characters and their ascii values.
25	Write a program to display stop watch.
26	Write a program to display numbers as follows : 1 1 2 1 2 3 1 2 3 4

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27	Write a program to display numbers as follows : <pre> 1 2 3 4 5 6 7 8 9 10 </pre>
28	Write a program to display numbers as follows : <pre> 1 2 2 3 3 3 4 4 4 4 </pre>
29	Write a program to display numbers as follows : <pre> 1 1 2 1 2 3 1 2 3 4 </pre>
30	Write a program to display numbers as follows : <pre> 1 1 2 1 1 2 3 2 1 1 2 3 4 3 2 1 </pre>
30	Write a program to display numbers as follows :(pascal triangle) <pre> 1 1 2 1 1 3 3 1 1 4 6 4 1 </pre>

USE ARRAYS FOR THESE PROGRAMS

Sl. No.	Question
1	Take input of five elements into an array and display them.
2	Take input of five elements into an integer array and copy them into another array and display them .
3	Take input of five elements into an integer array and copy them int to another array in reverse order and and display them.
4	Take input into two integer arrays each of five elements and copy into third array and display them .
5	Take input your name and display them int reverse order with out using STRING.H Library
6	write a program to take input of five integer in to array and display their sum.

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7	write a program to take input of five integer in to array and display their Product.
8	Take input of five elements into an integer array and find out biggest element
9	Take input of five elements into an integer array and find out smallest element
10	Take input of five elements in to an array and display them in ascending order using Selection Sort
11	Take input of five elements into an integer array and display them int desecending order using Selection Sort.
12	Take input of five elements into an array and sort them into ascending order using Bubble Sort.
13	Take input into an array of 10 elements and find out number of duplicated elements in it.
14	Take input into an array of 10 elements and find out number of even numbers and odd numbers in it.
15	Take Take input into a string i.e. char array and check whether the string is palindrome or not with out using string.h.
16	Take input of five names and sort them in alphabetical order and display.
17	Take input of your name and display as follows : Ex. Name="SGDC" display : S SG SGD SGDC
18	Take input of an array of students and six subjects marks display the marks and sum .
19	Take input of an integer, find out occurance of each digit in that.
20	Take input of an array 15 integers, and find out largest decreasing sequence in that.

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