Q No.	Coding challenge	Sample Input	Sample Output	Cheat Code
1	calculate sum, difference, product, division and remainder of two numbers, and print the result on the screen	7 2	9 5 14 3 1	use % operator to get the remainder of division
2	Take a number a meters, convert it to centimeters, then print it on the screen	2	200	
3	Take number of kilmeters , convert it to centimeters, then print it on the screen	2	200000	
4	Take number of inches , convert it to feet, then print it on the screen	60	5	
5	Take radius of a circle , calcualte its perimeter and area, then print it on the screen	4	12.5664 50.2654	use float data type
6	Take side of a square , calcualte its perimeter and area, then print it on the screen	6	24 36	
7	Take length and breadth of a rectangle , calcualte its perimeter and area, then print it on the screen	4 7	22 28	
8	Take a number (say 'n') , calculate sum of first 'n' odd numbers, print it on the screen	4	16	
9	Take a number (say 'n') , calculate the 'nth' odd number, print it on the screen	4	7	
10	Take a number (say 'n') , calculate sum of first 'n' even numbers, print it on the screen	4	20	
11	Take a number (say 'n') , calculate the 'nth' even numbers, print it on the screen	4	8	
12	Take a number (say 'n') , calculate sum of first 'n' terms of following series, print it on the screen 5 7 9 11 13	4	32	
13	Take a number (say 'n') , calculate the 'nth' term of following series, print it on the screen 5 7 9 11 13	4	11	
14	Take a number (say 'n') , calculate sum of first 'n' terms of following series, print it on the screen 3 7 11 15 19 23	4	36	
15	Take a number (say 'n') , calculate the 'nth' term of following series, print it on the screen 3 7 11 15 19 23.......	4	15	
16	Take two number, swap the values of these variables, print it on the screen	48 219	219 48	
17	Write a program to count minimum number of notes required for a given amount(valid notes are 2000,500,100, 50, 20, 10, 5, 1).	4553	7	
18	Write a program to take number of days as input and convert it into years, months and weeks (Assume all years have 365 days and all months have 30 days)	400	1 Year 1 Month 5 Days	**Assume 365 days in a year. 30 days in a month**
19	Write a program to take two angles of a triangle as input and find the third angle	60 90	30	Recall rules of trigonometry
20	Write a program to enter base and height of a triangle and find its area			
21	Write a program to calculate area of an equilateral triangle			
22	Write a program to take marks of five subjects (maximum marks that can be scored are 75) and calculate total, average and percentage			
23	Write a program to enter Principal, Time, Rate, calculate & print Simple Interest			
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Q No.	Problem Description	Sample Input	Sample Output	Cheat Code
1	Take 2 numbers as input from user, print the largest number on the screen	2 6	6	
2	Take 3 numbers as input from user, print the largest number on the screen	3 7 2	7	
3	Take the age of the user as input, print if the user is a teenager	15	Teenager: Beware of my Tantrums	
4	Take a number as an input, print if the number is odd or even	4 9	Lets get Even Odd one out	
5	Take the year as an input, print on the screen if it is a Leap year	2004 2007	Yay!!! One extra day to live your life. Get paid for the whole month while working for 28 days only :-)	
6	Take the age of the user as input, print if the user is an infant (Age 0-5) or teenager (Age 13-19), a senior citizen (>60), or Others	3 15 45 67	Infants: Soo Cute Teenager: Beware of my Tantrums Others: Damnn!!!!! Senior Citizen: Earn extra interest on fixed deposits	
7	Write a program to create a basic calculator. Provide a menu with 4 options to the user and let the user choose one of the options[1-4]. After the user has chosen the option take 2 more numbers as input from the user. Perform the operation that user has chosen in first step. 1. Add 2. Subtract 3. Multiply 4. Divide	1 7 8	15	
8	Take the price of an item as input from the user. Also take input the rate of GST on the item. print the final price of the item by adding GST amount to the price.	100 15	115	
9	Write a program to check whether a number is negative, positive or zero.	5 0 -8	Positive Zero Negative	
10	Write a program to check whether a number is divisible by 5 and 11 or not.	60 110	Yes No	
11	Write a program to check whether a character is a letter of English alphabet or not.	a 5	English Not English	use data type char. e.g. char sampleChar = 'a';
12	Write a program to input any letter and check whether it is a vowel or consonant.	e m	Vowel Consonant	
13	Write a program to input any character and check whether it is an English letter, digit or special character.	d & 5	English Special Character Digit	
14	Write a program to check if a user input character is upper case of lower case letter	a D	Lower Case Upper Case	
15	Take code price and selling price of an item as input. Write a program to calculate profit or loss.			
16	Write a program to input week number and print week day (Week starts on Monday and ends on Sunday).	4 7	Thursday Sunday	
17	Write a program to input month number and print number of days in that month.	5	31	
18	Write a program to input angles of a triangle and check whether triangle is valid or not.	30 60 90 20 40 60	It is a triangle It is not a triangle	
19	Write a program to check whether the triangle is equilateral, isosceles or scalene triangle.	3 3 3 3 3 6 4 5 6	equilateral isosceles scalene	
20	Write a program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following: Percentage >= 90% : Grade A Percentage >= 80% : Grade B Percentage >= 70% : Grade C Percentage >= 60% : Grade D Percentage >= 40% : Grade E Percentage < 40% : Grade F			
21	Write a program to input basic salary of an employee and calculate its Gross salary according to following: Basic Salary <= 10000 : HRA = 20%, DA = 80% Basic Salary <= 20000 : HRA = 25%, DA = 90% Basic Salary > 20000 : HRA = 30%, DA = 95%			

	Write a program to input electricity unit charges and calculate total electricity bill according to the given condition: For first 50 units Rs. 0.50/unit For next 100 units Rs. 0.75/unit For next 100 units Rs. 1.20/unit For unit above 250 Rs. 1.50/unit 22 An additional surcharge of 20% is added to the bill		
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