

No.	Program	Function	Input	Output
1	Find Factorial of give number 5! = 5*4*3*2*1 = 120	int factorial(int num)	factorial(4) factorial(6) factorial(5)	24 720 120
2	Search whethe a number is in array or not and if it is in array, print its position. array = {32,45,458,785,73,3,4856,239,22,47}	boolean isNumberAvailable(int number)	isNumberAvailable(239) isNumberAvailable(03) isNumberAvailable(12)	TRUE,08 TRUE,06 FALSE
3	Find whether given string is palindrome or not	boolean isPalindrome(String userString)	isPalindrome("Today") isPalindrome("abcba") isPalindrome("aabbcc")	FALSE TRUE FALSE
4	Find how much tax a person has to pay on his income based on following criteria Income Slabs total income does not exceed Rs. 1,80,000/-. total income exceeds Rs. 1,80,000/- but does not exceed Rs. 5,00,000/-. total income exceeds Rs. 5,00,000/- but does not exceed Rs. 8,00,000/-. total income exceeds Rs. 8,00,000/-.	double calculateIncomeTax(double income) Tax Rates NIL 10% of amount by which the total income exceeds Rs. 1,80,000/- Rs. 32,000/- + 20% of the amount by which the total income exceeds Rs. 5,00,000/-. Rs. 92,000/- + 30% of the amount by which the total income exceeds Rs. 8,00,000/-.		
5	Find the total cost of travelling depending on distance Distance 0 - 100 km -> Rs. 5/- km 101 - 500 km -> Rs. 8/- km 501-1000 km -> Rs. 10/- km More than 1000 km -> Rs. 12/- km	double findTravellingCost(double kilometers)		
6	Find whether a given number is prime or not A number is prime if It can be divided by 1 and itself and not any other numbers	boolean isPrime(int number)	isPrime(17) isPrime(87) isPrime(113)	TRUE FALSE TRUE
7	Fibonnaci Series 1,1,2,3,5,8,13 Current term = addition of last two terms	void printFibonnaci(int terms)	printFibonnaci(5)	1,1,2,3,5
8	Find whether a given number is Armstrong number An Armstrong number of three digits is an integer such that the sum of the cubes of its digits is equal to the number itself	boolean isArmstrong(int number)	isArmstrong(371) isArmstrong(489) isArmstrong(153)	TRUE FALSE TRUE
9	Print 3 given numbers in ascending order.	void ascendingOrderOfNumbers(int num1,int num2,int num3)	ascendingOrderOfNumber(23,45,7)	7,23,45
10	Show date in formatted way	String displayFormattedDate(String date)	displayFormattedDate(17/12/2014) displayFormattedDate(07-07-1984) displayFormattedDate(19:10:2004)	December 17, 2014 July 07, 1984 October 19, 2004