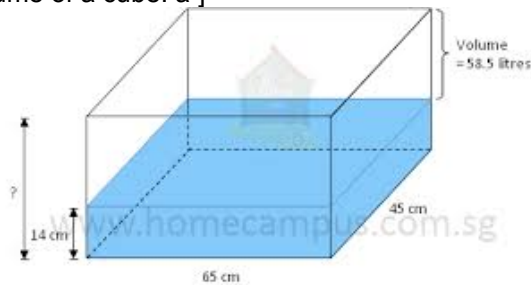


1. Suppose you have two water containers – one is sphere shaped and another is cubic shaped. Write a C program which can input two integers indicating radius of a sphere-shaped container and length of sides of the cubic shaped container; display in which type of container you can store more water. [Volume of a sphere is: $\frac{4}{3} \times \pi \times r^3$; volume of a cube: a^3]



2. Write a C program which can input an integer number from the user and display immediate next odd number.
3. Write a C program which takes an integer as user input that indicates the annual salary of a person. The program should find and display the monthly salary of that person.
4. Tashfin's uncle Tahseen recently went abroad. On his return he brought a lot of chocolates for his nephews and nieces who are eight in number. Tahseen wants to distribute these chocolates evenly among all his nephews and nieces. However before distributing he will keep five chocolates for his brothers and sister. If the number of remaining chocolates cannot be evenly distributed among his eight nephews and nieces, then rest of those remaining chocolates will be kept for Tahseen's brothers and sister. Develop a C program which will take as input the number of chocolates Tahseen brought, and display how many chocolates will Tahseen's each nephew/nieces get. Also, find and display how many chocolates will be for Tahssen's brothers and sisters.



5. A newborn baby normally sleeps a lot. If baby's sleep time is more than double of awake time it is called "Over sleepy infant". If sleep time is in range of equal to double of awake time then it is called "Normal sleepy infant". If sleep time is less than awake time then it is called "Less sleepy infant". Write a C program which can input a newborn's sleep time and awake time (in integers) and display what type of sleep pattern he/she maintains.



6. Tashfin's cousin bought some books for him where the shopkeeper give one coupon with each book and said that if he returns those coupons then for every three coupons he can get one chocolates and for each coupons he can get one chewing gum. However Tashfin is more interested in chocolates than chewing gum. Write a C program which can input number of books Tasfin's cousin bought and display how many chocolates and chewing gum he can get by returning those coupons maintaining Tashfin's choice.

