

## Working with Functions (Worksheet 4)(Do any 7)

1. Write a function that takes amount-in-dollars and dollar-to-rupee conversion price; it then returns the amount converted to rupees. Create the function in both void and non-void forms.
2. Write a function to calculate volume of a box with appropriate default values for its parameters. Your function should have the following input parameters:
3. (a) length of box; (b) width of box; (c) height of box.
4. Write a program to have following functions:
  - (i) function that takes a number as argument and calculates cube for it. The function does not return a value. If there is no value passed to the function in function call, the function should calculate cube of 2.
  - (ii) a function that takes two char arguments and returns True if both the arguments are equal otherwise False. Test both these functions by giving appropriate function call statements.
5. Write a function that receives two numbers and generates a random number from that range. Using this function, the main program should be able to print three numbers randomly.
6. Write a function that receives two string arguments and checks whether they are same-length strings (returns True in this case otherwise False).
7. Write a Python to accept a string in a mixed case. Pass the string to a function def Freq (String). The function should find and the frequency of each vowel.
8. Write a Python code to accept two numbers. Check and display whether they are twin prime or not by using function. The function returns 1 if a numbers is prime, otherwise return 0. Twin prime numbers are a pair of prime numbers whose difference is 2.
9. Write a Python code to accept a number and check whether the number is a palindrome or not. Use a function def Palin(n) which returns after reversing its digits.
10. Write a Python code to input a number and use a function def Armstrong() to receive the number. The method will return 1 if the number is Armstrong, otherwise it will return 0.
11. Write a Python to store twenty different numbers in a list. Pass the list to a function def Prime(MyList) and display only the numbers which are prime. The function doesn't return any value to the main function.
12. Write a Python code to accept a string from the user. Pass the string to a function def Display(str) which displays the constants present in the string.
13. Write a Python code to accept a string from the user. Pass the string to a function def Change(str) which display the first character of each word after changing the case (lower to upper and vice-versa).