

FUNCTIONS : QUESTION BANK

CLASS – XII

Subject: Computer Science

Question Bank – 1

Q1.	Define a function in brief? Write syntax to create a user-defined function.	
Q2.	Write advantages of using functions.	
Q3.	Name at least 3-3 examples of built-in function and functions in module.	
Q4.	Write a function differ() which accept two numbers and print the difference between them. For example: differ(18,15) will print 3 differ(6,10) will print 4	
Q5.	Write a function rectangle() which accept length and breadth of a rectangle, and return area and perimeter of it. Use this function in main-program to accept length and breadth and print its area and perimeter.	
Q6.	Write a function which accept two numbers and return their sum, subtraction, division and multiplication. Use this in main-program to accept two numbers and print all four basic mathematical calculation.	
Q7.	Write a function which accept a number as argument and return twice of the number, if given number is even otherwise return thrice of the number. Use this function in main-program to test it.	

Question Bank – 2

Q1.	Write a function which input person name as argument and print greeting message as: Good Morning <person-name>	
Q2.	Write a function which accept a number as argument and return 0, if it is an even number else return 1. Use this function in main program to accept a range from user (from lower to upper number) and print the even numbers between them.	
Q3.	What do you mean by Formal and Actual Parameters? Explain giving example.	
Q4.	Write definition of a function HowMany(ID, VALUE) to count and display number of times the VALUE is present in the list ID. For example, if the ID contains [115, 25, 65, 59, 74, 25, 110, 250] and the VALUE contains 25, the function should print: 25 found 2 times .	
Q5.	Write definition of a method EvenSum(NUMBERS) to add those values in the list of NUMBERS, which are odd. Example, if NUMBERS contain [1, 2, 3, 4, 5, 6], the it should print 9.	
Q6.	Write a function myfunc() which accept two numbers as parameter and return the sum of square of first number and square root of second number. Example: if a=4, b=16, then myfunc(a,b) will return 20.	
Q7.	Write a function printDate() which accept day, month, and year as parameter and print in the given format. Example: if d=15, m=4, y=2024, then printDate(d,m,y) will print 15-APR-2024.	

Question Bank – 3

Q1.	What do you mean by default argument in a function? Explain giving example.	
Q2.	Explain the three types of functions depending on their return value with example.	
Q3.	Name the python library modules which need to be imported to invoke the following functions: (i) floor() (ii) randint() (iii) plot() (iv) sin()	
Q4.	Write definition of a method ZeroEnding(SCORES) to add all those values in the list of SCORES, which are ending with zero(0) and display the sum. Example, if SCORES contain [200, 456, 300, 100, 234, 678], the sum should be displayed as 600.	

Q4.	Write a function myfunction(), which accept a list as argument and returns the index number of highest element of the list. Example – suppose the list is L=[9, -45, 457, 85, 99], then if we call myfucntion(L), it must return 2, which is index number of highest element of the list.	
Q5.	Write a function countMe(), which accept a message and a letter as argument and returns the frequency of the letter in the message. For example – if the message is “This is KV Bharatpur” and the letter is ‘i’, then it must return 2 i.e. frequency of ‘i’ in the message. Use the above example in main-program to test your function.	
Q6.	What is the difference between Actual Parameter and Formal Parameter? Explain giving example.	
Q7.	Write a function myfunction(), which accept a number as argument and prints number and its square upto 1 in reverse order. For example, if we call the function in main-program as Myfunction(5), then output will be: <div style="display: flex; justify-content: space-around;"> <div>Number</div> <div>Square</div> </div> <div style="display: flex; justify-content: space-around;"> <div>5</div> <div>25</div> </div> <div style="display: flex; justify-content: space-around;"> <div>4</div> <div>16</div> </div> <div style="display: flex; justify-content: space-around;"> <div>3</div> <div>9</div> </div> <div style="display: flex; justify-content: space-around;"> <div>2</div> <div>4</div> </div> <div style="display: flex; justify-content: space-around;"> <div>1</div> <div>1</div> </div>	

Question Bank – 6

Q1.	Write a function which accept a list and multiply its all elements and returns it. If any number is zero, then it leaves that zero. Example if the list is L=[1,2,3,5,0,-6,4,5], the it returns -3600. Write main function to test the sample list.	
Q2.	Write a python program that accepts hyphen-separated sequence of words as input and prints the words in a hyphen-separated sequence after sorting them alphabetically. Sample input string: vikash-vipin-ayush-navneet-shivanshu-abhishek Expected output: abhishek-ayush-navneet-shivanshu-vikash-vipin-	
Q3.	Consider below given function headers. Identify which of these will cause error and why? (i) def func (a = 1, b): (ii) def func (a = 1, b, c = 2): (iii) def func (a = 1, b = 2, c = 3):	
Q4.	Find and write the output of the following Python code: <pre>data=["P",20,"R",10,"S",30] times=0 alpha="" add=0 for c in range(1,6,2): times = times + c alpha = alpha + data [c-1] + "\$" add = add + data[c] print (times, add, alpha)</pre>	