

Good morning students .  
XIIB Computer Science :  
Teacher : BIPLAB DAS

Study materials for (20th May 2020) .  
Now we will start the Review questions  
of 3rd chapter of Reeta Sahoo .

Go through the pages 127 and 128  
Review questions from ( 1 to 17) .

The homework will be uploaded by 8pm  
tomorrow ( 21st May) .

Thanks .

12:44 am ✓

**Ans.** The method is: (# File name: ...\\MyPythonXII\\PyChap03\\PyDL20183d.py)  
 # Function to find and display those place names, in which there are more than 5 characters.  
 def COUNTNOW(PLACES):  
     for P in PLACES:  
         if len(P)>5:  
             print (P)

## REVIEW QUESTIONS

1. What is a function?
2. How will you use library function?
3. State the difference between a local and a global variable.
4. Write some advantages of using a function.
5. Why do we use return statement?
6. What are the three basic components of a function definition?
7. How will you call a function in script mode?
8. Suppose function M1 calls function M2 within a program. Will the order of function definition make any difference? Explain.
9. What is the purpose of void in a function definition?
10. Write the function definition for the following:
  - (a) A function called root() accepts three arguments and returns a single value.
  - (b) A function called perimeter() accepts two values and returns a single value.
  - (c) A function called check() accepts one integer value and one character and returns nothing.
  - (d) A function called calculate() accepts nothing and returns nothing.
11. Define the following with one example each:
  - (a) Required arguments
  - (b) Keyword arguments
  - (c) Default arguments
  - (d) Variable-length arguments.
12. What will be the output of the following program?
 

```
def f1(b):
    x = b*b;
    return x
def main():
    for i in range(1, 5):
        a = f1(i)
        print (a)

main()
```
13. What will be the output of the following program?
 

```
def square(i, j):
    i = i*i
    j = j*j
```

```
def main():
    i, j = 4, 10
    square(i, j)
    print (i, "\t", j)
main()
```

14. Find the error, if any, in the following programs:

(a) 

```
def sum(i, j):
    return (i*j)
def main():
    k = sum(i, j)
    print (k)
main()
```

(b) 

```
def div(a, b):
    a = a + b
    b = b + b
    return(a, b)
def main():
    c = div(a, b)
    print (c)
main()
```

15. Give the output of the following program:

```
def sumfn(last):
    sum = j = sum2 = 0
    for j in range(last, j, -1):
        sum += j
        sum2 += sum
    print (sum, " ", sum2)
def main():
    for i in range(1, 11):
        sumfn(i)
main()
```

16. Give the output of the following program:

```
def area(s, a):
    return(s * s)
def area(b, h=5):
    return(0.5 * b * h)
def main():
    print (area(5, 1))
    print (area(4, 3))
    print (area(6, (area(3,1))))
main()
```

17. Observe the following Python code very carefully and rewrite it after removing all syntactical errors with each correction underlined.

```
DEF execmain():
    x = int(input("Enter a number:"))
```