

Lambda Functions and Modules Exercise

1) Write a Python program to create a function that takes one argument, and that argument will be multiplied with an unknown given number.

Eg:

```
def sum(n):  
    return lambda x:x+n  
  
result=sum(10)  
print (result(5))
```

Output: 15

Here n takes 10 and x takes 5

2) Import builtin module time and find a builtin find inside time so that it gives you the current time

3) Create user defined module named 'formulas', where you define a function. Under function, find values for three formulas namely, a^2+b^2+2ab , a^2-b^2-2ab , $(a+b)(a-b)$. Call the user defined modules from another function and try to get output of all three formulas for $a=5$, $b=3$

4) Write a module in which one function to return biggest of two numbers, another to return smallest of two numbers, another to return numbers are equal, whenever you call the module, automatically it should ask two values to perform comparison.

5) Write a recursive function to add sum of numbers for n from 1 till n: For eg, if $n=10$, then it should add $10+9+8+7+6+5+4+3+2+1$ and return result as 55