

Lab Exercises Chapter 6 Solutions

Write a program that accepts a number from the user and uses a function to square the number then return the result.
Print the result to the screen.

```
def sq(a):  
    return a * a  
num = int(input("Enter a number: "))  
print (sq(num))
```

Write a function that returns the largest of two numbers. Test the function and print the results to the screen.

```
def largest(a, b):  
    if a > b:  
        return a  
    return b  
num1 = int(input("Enter number one: "))  
num2 = int(input("Enter number two: "))  
print (largest(num1, num2))
```

What is the difference between a local and a global variable?

Global is accessible from anywhere, local is only accessible within the function.

What makes a function recursive?

The function calls itself.

Write a program that prints first 10 positive numbers using a recursive function.

```
def display(num):  
    if(num) :  
        display(num-1)  
    else :  
        return  
    print ("{}".format(num))
```

```
limit = int(input("Enter a number: "))  
print("\nNatural Numbers from 1 to {} are:".format(limit))  
display(limit)
```