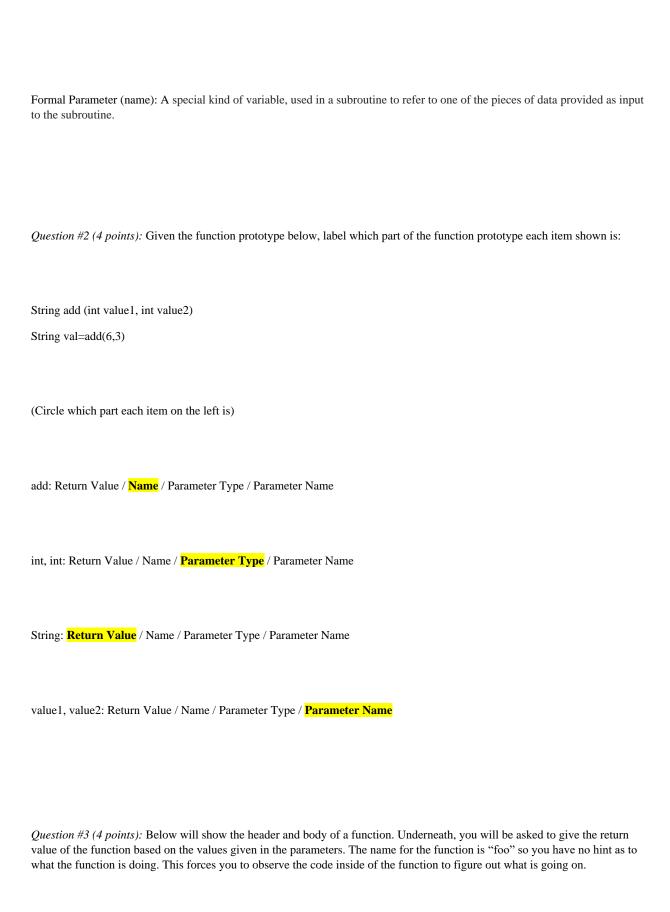
CSC 10A

Accelerated Introduction to Programming Logic

Lab	
20 Points	
Name:Rifat Khan	
Functions	
The purpose of this assignment is to give you practice in using functions, evaluating the code inside of a function, recognizing parts of a function prototype (aka "function header"), and explaining what purpose each part of the function prototype serves.	the
Requirements	
Answer the questions below for credit. (Show your work if applicable)	
Question #1 (4 points): Next to each part of a function prototype listed below, describe what purpose it serves:	
Return value: It's a value, variable or other information coming back from a source of data	
Function name: A named section of a program that performs specific tasks	
Formal Parameter (type): Different variables assigned to a subroutine	



```
int foo (int n1, int n2){
  int ret = 0
  int i = 0
  for (i = 0 to n2 -1 STEP + 1){
    ret = ret + n1
  }
  return ret
}
```

Using the function above, answer what the return value is for the various versions of the function below (depending on the actual parameters given to it):

```
foo (3, 3) = 9
int foo (n1=3,n2=3)
for(0 to 2) {
ret=ret+3
}
For 0:
Ret=0+3
Ret=3
For 1:
Ret= 3+3
Ret=6
For 2:
Ret=6+3
Ret=9
```

Return ret; 9

```
foo (4, 2) = 8

Int foo(n1=4,n2=2)

For(0 to 1)

Ret=ret+4

}

For 0:

Ret=0+4

Ret=4

For 1:

Ret=4+4
```

Ret=8

```
foo (5, 4) = 20

Int foo(n1=5,n2=4)

For(0 to 3)

Ret=ret+5

}

For 0:

Ret=0 +5

Ret=5

For 1:

Ret=5+5

Ret=10

For 2:

Ret=10+5
```

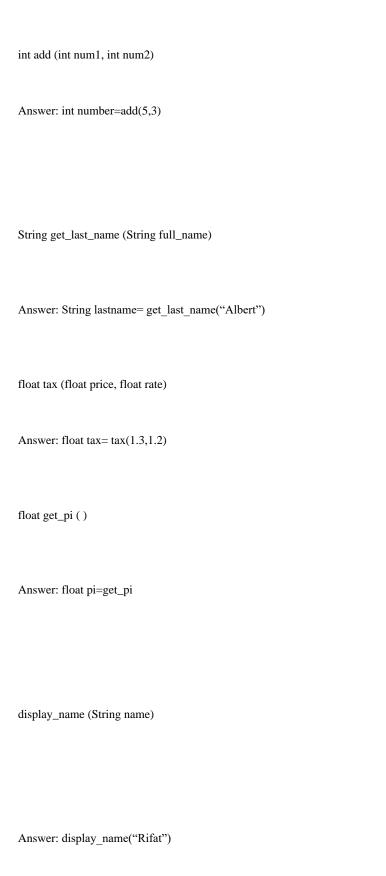
Ret=15
For 3:

Ret=15+5

```
foo (6, 3) =24
Int foo(n1=6,n2=3)
For(0 to 2)
Ret=ret +6
}
For 0:
Ret=0+6
Ret=6
For 1:
Ret=6+6
Ret=12
For 2:
Ret=12+6
Ret=18
For 3:
Ret=18+6
```

Ret=24

Question #4 (8 points): Given different function prototypes, write how you would use them in practice. "Use them" is defined as "calling" the function with the appropriate actual parameters (also called "arguments"), using the appropriate function name, and capturing any return values. You can use whatever values you want for the actual parameters as long as they are a compatible type with the formal parameters.



boolean is_number_odd (int number)
Answer: boolean odd= is_number_odd(9)
code_block()
Answer:
String divide (int num1, int num2)
Answer: string divide=divide(8,4)
Submission
Submit this assignment on Canvas by the due date for credit.

If you have any questions, let me know.