

Practice Problems for Functions

Here are a few problems you can use to practice writing functions on paper.

1. Write a function `PrintStars()` that prints a string of 5 "*" characters.

```
def main():
    PrintStars()
    print( "bob" )
    PrintStars()
```

will print

```
*****
bob
*****
```

2. Write a function `PrintNStars(n)` that prints a string of n "*" characters.

```
def main():
    PrintNStars(8)
    print( "bob" )
    PrintNStars(3)
```

will print

```
*****
bob
***
```

3. Write a function `Stars(n)` that returns a string of n "*" characters.

```
def main():
    decoration = Stars(5)
    print( "%s bob %s" %(decoration, decoration) )
```

will print

```
***** bob *****
```

4. Write a function `IsLetter(s)` that returns True if s is a single letter in the alphabet (upper case or lower case) and returns False for any other input. So `IsLetter('a')` returns True, while `IsLetter('$')` returns False

5. Write a function `ISQR(n)` that returns the largest integer whose square is less than or equal to number n. If we have the main function

```
def main():
    x = ISQR(24)
    print( x )
```

this will print 4. You can assume that n is a positive number.

6. Write a function `PrintFunny(s)` that prints string `s` if it does not contain the letter 'b', and prints "bob" if `s` does contain the letter 'b'. For example

```
def main():  
    PrintFunny( "Carmen Ambar" )  
    PrintFunny( "Donald Trump" )
```

will print

bob

Donald Trump

7. Write a function `NoSpaces(s)` that returns a string just like string `s` but with all of the blank spaces removed. So `print(NoSpaces("How does this work?"))` will print "Howdoesthiswork"