

Vocabulary	
Variable	Something that can be changed
Module	File containing Python definitions and statements
String	A list of characters in order
Print	Show the information on the screen
Input	The information from the user
Syntax	Spelling and grammar of language
Integer number	Whole number or counting number
Syntax error	An error in a program that makes it impossible to parse
Len	Return the length of an object
Integer number	Whole number or counting number
Float	The number in decimal number

```

Print name
name = "kaewkawe"
PLEUMCHAROEN"
print (name.upper()) ----
-----> KAEWKAWEE
PLEUMCHAROEN
print (name.lower()) ----
-----> kaewkawe
pleumcharoen
print (name.capitalize())
-----> Kaewkawe
pleumcharoen
print (name.title()) ----
-----> Kaewkawe
Pleumcharoen
    
```

```

Example code
mylists3 =[1, 'hello' ,
2.5]
print (mylists)
print (mylists2)
print (mylists3)
#how to make a list with
all numbers from 0-99
mynumbers = range(5)
for num in numbers:
print(num)
    
```

```

Reverse word
while True:
    word = input("Please
enter a word")
    index = 0
    reverse = ' '
    while int(index) <
len(word):
        reverse =
word[index] + (reverse)
        index =
int(index) + 1
    print ("Reverse: ",
reverse)
    
```

Math	
!=	Not equal to
==	Equal to
<	Less than
>	More than
<=	Less than or equal to
>=	More than or equal to
%	Modulo, Find the remainder

Functions	
print()	show information on the screen
float()	Change number to be decimal number
str()	converts

Functions (cont)	
len()	the length of the string
#	comment
input()	receives information from the user
import random + random.choice(list)	pick random item from the list
int()	change number to be number integer

```

Random code
import random
mylist = ["Dog", "Fish",
"Cat", "Bear"]
counter = 0
while counter < 10 :
    random_item =
random.choice (mylist)
    print
(random_item)
    counter =
counter + 1
    
```

Multiplication	
string*string	crash
string*num	combines he string multiple times
number*num	math-multiply
string**num	crash

Addition	
string+string	combines the string together
string+num	crash
number+num	Math - addition

```

Convert to Binary
user_number = ' '
while user_number != '0' ;
    user_name =
input("Enter a number to
convert to binary")
    number =
int(user_number)
    binary_string = ''
    while (number > 0):
        remainder =
number%2
        binary_string =
str(remainder)+
binary_string
        number = number//2
    print ("Binary string
is",binary_string)
    
```

```

Circle area code
while True:
    user_radius =
input("What is the
radius?")
    radius =
float(user_radius)
    pi = 3.1415
    area= pi radius * 2
    print ("The area of
the circle is", area)
    
```

```

Word guessing game
import random
#Create a list
guesslist = ['grape',
'orange', 'chloroplast',
'ribosome', 'lipstick']
chance = 3
score = 0
print (guesslist)
while chance != 0:
    random_item =
random.choice(guesslist)
    
```



## Word guessing game (cont)

```
user_input = input("Please guess a word: ")
if user_input == random_item:
    print ("That's correct!")
    score = score + 100
    print ("Score:", score)
else:
    if user_input not in guesslist:
        print ("Sorry, that isn't even in the list!")
        chance = chance - 1
        print ("Chance Remaining:", chance)
    else:
        print ("Sorry, wrong choice!")
        chance = chance - 1
        print ("Chance Remaining:", chance)
    if chance == 0:
        print ("The word was", random_item)
        print ("The score is", score)
```

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Page 2 of 2.

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