

### Functions

|         |  |
|---------|--|
| print() | Show information that you want on the screen |
| int()   | change number to be number integer           |
| float() | change number to be decimal number           |
| int()   | gain information from user                   |
| str()   | a list of number, letter and symbols         |

### Code

```
name = "007wins"
print (name.upper())
print (name.lower())
print (name.capitalize())
print (name.title())
```

### function list

```
#write the function that returns
the largest number in a list
#name: maxlist
#argument:list
#returns the largest value in
the list
def maxlist(list):
    maxvalue = list[0]
    for item in list:
        if item > maxvalue:
            maxvalue = item
    return maxvalue
mylist = [1,2,3,4,55,66,-
777,0,1]
print(maxlist(mylist))
```

### Addition

|                 |                  |
|-----------------|------------------|
| string + string | combine together |
| string + number | crash            |
| number + number | math - addition  |

### Radius finder 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)
```

### Code

```
mystring = "hello"
print (mystring)
firstname = input( "what is your
first name?")
lastname = input( "what is your
last name?")
fullname = firstname + " " +
lastname
print (fullname)
letternumber = int(input( " what
is letter number? " ))
if letternumber >len(fullname):
    print ( " invalid letter
number, try again! " )
else:
    letter = ( fullname[letter-
number] )
    print (letter)
    numberletter = int(input(
"how many times to print letter
" ))
    if numberletter >100:
        print ( " too many
letters to print! " )
    else:
        print (letter * number-
letter )
```

### Function Python

```
#write a function that returns
the largest of two values
#name : max2
#agruments: num1, num2
# return: largest value
# write a functrion that returns
the largest of three values
# name : max3
#agrument: num1, num2, num3
# return: largest value
def max2(num1,num2):
    if num1 >= num2:
        max_value = (num1)
    if num2 > num1:
        max_value = (num2)
    return max_value
num1 = input('Enter the the
first value')
num2 = input('Enter the the
second value')
print (max2(num1,num2))
def max3(num1,num2,num3):
    if num1 >= num2 and num1 >=
num3:
        max_value = (num1)
    if num2 > num1 and num2 >=
num3:
        max_value = (num2)
    if num3 >= num2 and num3 >=
num1:
        max_value = (num3)
    return max_value
num3 = input('Enter the the
third value')
print (max3(num1,num2,num3))
```

### Multiplication and Exponents

|                  |                     |
|------------------|---------------------|
| string * number  | combine that string |
| string* string   | crash               |
| number * number  | math - multiply     |
| string ** string | crash               |
| number ** number | math - exponent     |
| string ** number | crash               |

### Math

|    |                       |
|----|-----------------------|
| == | equal to              |
| != | no equal to           |
| <  | less than             |
| >  | more than             |
| <= | less than or equal to |
| >= | more than or equal to |

### Vocabulary

|                |  |
|----------------|--|
| variable       | hold a value and can be change                         |
| string         | a list of character such as number, letter and symbols |
| integer number | whole number or counting number                        |
| float number   | the number in decimal                                  |
| syntax         | grammar or structure of lauguage                       |
| value          | the number or string can be store in valuable          |
| loop           |  |
| mudole         | the text for storing for python code                   |
| blank          |  |
| input          | gain information form User                             |
| comment        |  |
| print          | To show information on code                            |

### Vocabulary (cont)

|              |                              |
|--------------|------------------------------|
| code         |                              |
| syntax error | make impossible to the parse |

