

Functions

print()	displays information on the screen
input()	receives information from the user
int()	convert a value to an integer
float()	decimal number
str()	string(word)
print()	use print statement with parenthesis

random

```
import random
intlist = [1,2, 3,4 ,5,6]
random_int = random.choice(intlist)
fplist = [1.22 ,2.33, 3.4 - 4,4.55]
random_fp = random.choice(fplist)
strlist = ["1 " , " 5" , " 6" , " 7"]
random_str = random.choice(strlist)
mylist = [2 ,2.33 ,"lily"]
random_item = random.choice(mylist)
```

circle

```
while True:
pi = 3.1415
user_radius = input( " Insert radius here... " )
radius = float( user_radius )
area = pi * radius*2
print ( " the area of the circle is", area)
print ( " Allahu Akbar")
```

def

```
def printDefinition(word):
    if word == "function":
        print (""" A function is the code""")
    elif word == "variable":
        print (""" A variable is thing that can change "" ")
    else:
        print (""" A return value is something the function give back""")
        print (""" A argument value is something that pass the function""")
        print (""" A parameter is something that pass the function""")
        print (""" A string is the list of character """)

printDefinitions()
```

addition

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

Math

+	plus
/	divide
*	multiple
**	power
%	remainder

vocabulary

variable	hold a value and can be change
string	a list that have " "
integer	number
syntax	grammar
print	show information

text

name = "tim GIRARD"	print	TIM
(name.upper())	print (name.lower())	GIRARD
capitalize()	print (name.capitalize())	tim girard
	print (name.title())	Tim girard
		Tim Girard

loop

```
shoppi nglist = ['salmon',
'bacon', 'water', 'jelly',
'ham']
print (shopp in g list)
list_num = 0
while list_num < len(sh op p -
i ng list):
print ("Li st : " ,sh op p -
i ng lis t[ l i st _num])
list_num = list_num + 1
for item in shoppi ng list:
print (item)
numbers = range(120)
for num in numbers:
print (num)
```

true false

True or anything ==True
False and anything ==false

if statment

```
num= int(input(" enter a
number"))
if num<0:
    pri nt( num ,"is
negati ve")
elif num==0:
    print (num,"is zero")
else:
    pri nt( num ,"is
possit ive ")
```

stop loop

```
while True:
    use r_i npu t=i npu -
t("enter number :")
    if user_input != " exi -
t":
        pri nt( len -
(us er_ input))
    else:
        break
```

code

```
while true:
    use r_r adius =
input( " what is the radius ")
    radius = float( use -
r_r adius)
    pi = 3.1415
    area = pi radius*2
    pri nt( "the area of
circle is", area)
```

code (copy)

```
while true:
    use r_r adius =
input( " what is the radius ")
    radius = float( use -
r_r adius)
    pi = 3.1415
    area = pi radius*2
    pri nt( "the area of
circle is", area)
```

list

```
import random
intlist = [1, 2, 3, 4, 5, 6, 7,
8, 9, 10, 11, 12]
random_int = random.choice
(intlist)
print( in t l is t,r an d o -
m_int)
fplist = [0.1, 0.2, 0.3, 0.4,
0.5, 0.6]
random_fp = random.choice
(fplist)
print (fplis t, r a nd om_fp)
strlist = ["1", " -
2 " ,"3 " ,"4 " , " -
5","6 " , " 7", " 8", " 9 "]
random_str = random.choice
(strlist)
print (strli st , r an dom -
_str)
mylist = ["ad am " , " mil -
d", " l o ve ada m", " l e -
vi ne", " 3 " ,"4.6 " , " -
424 ,6 7 4 ,5.733]
random _item = random.choice
(mylist)
print (mylis t, r a nd om_
item)
myvar1 = 1
myvar2 = 2
myvar3 = 3
varlist = (myvar 1, m y va -
r2, my var3)
random_var = random.choice
(varlist)
print (varli st , r an dom -
_var)
```

symbol

```
if/elif/else
conditionals
While
loop
for
list all the thing
!=
If values of two operands are
not equal, then condition
becomes true.
==
test if the 2 value are the same
<
less than
<=
If the value of left operand is
less than or equal to the value
of right operand, then condition
becomes true.
>
greater than
>=
If the value of left operand is
greater than or equal to the
value of right operand, then
condition becomes true.
```

area

```
def areaOfCircle (r):
    area = 3.14*r**2
    return area
```

function1

```
def computeThis (a1,b2):
    return a1*b2
a1 = int(input ("Enter a
number "))
b2 = int(input ("Enter a
number "))
print (computeThis (a1,b2))
```



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