

Vocabulary

Variable	Holds a value and can be changed
String	A list of characters such as numbers, letters, symbols
Integer number	Whole number/Counting number (No decimal)
Float number	The number with decimal
Modulo	Find the remainder
Boolean	True/False
Syntax	Grammar/Structure of language
Function call	A call to use function
Argument/-Parameter	Something you give to function
Function	Something that you can reuse the code

function 1

```
def aisha(text):
    print('H'+str(text)
+ '')
    return
aisha(1)
aisha( " hel lo")
aisha(1+2)
aisha( " tex t")
def chung( tex t,deco rat ion):
    print( deco ration +
str(text) + deco ra tion)
    return
chung( 123 123 213212, " +++ +")
chung( " hel lo", " <<> >")
```

function area of circle

```
def areaOfCircle(r):
    if r<= 0:
        return " Err -
or: radius <= 0"
    pi = 3.1415
    area = pi r #or pi r *2
    return area
user_r adius = input( " Enter
the radius: ")
radius = float( use r_r adius)
print( "The area of the circle
is", areaOf Cir cle (ra dius))
```

Grade A Exam

```
theList = ["A","B","C","D"]
for item in theList:
    pri nt( item)
whileList = ["E", " -
F","G " ,"H"]
s = 0
while s < len(wh ile List):
    pri nt( whi leL ist[s])
    s += 1
while True:
    use r_input = input
("Enter the word: ")
    if user_input == " exi -
t":
        break
    else:
        pri nt( len -
(us er_ input))
def theFun cti on():
    while True:
        use r_input =
input ("Enter the word: ")
        if user_input ==
" sto p":
            break
        return
theFun ction()

def comput eTh is( a1,b2):
    return (a1*b2)
```

Grade A Exam (cont)

```
> print (computeThis(4,8))
def finalFunction(string):
    print(">"+string+"")
    return
finalFunction("Aisha")
```

Code

```
print      Make every letter capital case
(name.u-
pper())

print      Make every letter lower case
(name.l-
ower())

print      Make the first letter capital
(name.c-
apitalize())

print      Make the first letter and the
(name.tit-
le())      letter after the space capital
case
```

RANDOM

```
import random
# Create a list of integers
intlist =[1,2,3,4]
random_int = random.ch oic e(i -
ntlist)
print( int lis t,r and om_int)
# Create a list of floating
point numbers
fplist = [1.0,1.2, 1.4 ,0.5]
random_fp = random.ch oic e(f -
plist)
print( fpl ist ,ra ndo m_fp)
# Create a list of strings
srtlist = ["Ai sha " ,"Ev -
e","K ami toP " ,"Sa nya "]
random_srt = random.ch oic e(s -
rtlist)
print( srt lis t,r and om_srt)
# Create a list of integer,
floating point number and string
mylist = [1,2.5 ,"Ai sha "]
random_item = random.ch oic e(m ylist)
```



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RANDOM (cont)

```
> print(mylist,random_item)
# Create a list of following variables
myvar1 = 1
myvar2 = 2
myvar3 = 3
varlist = [myvar1,myvar2,myvar3]
random_var = random.choice(varlist)
print(varlist,random_var)
```

Max Value Function

```
def max2(num1,num2):
    MaX = num2
    if num1 > num2:
        MaX = num1
    return MaX

def max3(n um1 ,nu m2, num3):
    Max = num1
    if num2 > num1:
        if num2 > num3:
            Max = num2
        if num3 > num1:
            if num3 > num1:
                Max = num3
    return Max

first = input( 'Enter the first
number: ')
second = input( 'Enter the
second number: ')
third = input( 'Enter the thrid
number: ')
print( "Max value of 2 value
is", max 2(f irst,s econd))
print( "Max value of 2 value
is", max 3(f irst,s eco nd, -
third))
```

Reverse Word

```
while True:
    word = input( " Please
enter the word:" )
    index = 0
    reverse = ''
    while int(in dex )<1 -
en( word):
        reverse =
word[i ndex] + (reverse)
        index =
int(index) + 1
    pri nt( " Rev erse: ",
reverse)
```

Convert to binary

```
user_number = ' '
while user_n umber != ' 0 ' :
    use r_n umber = input
("Enter a number to convert to
binary: ")
    number = int(us er_ -
number)
    bin ary _string = ' '
    while (number > 0):
        rem ainder =
number%2
        bin ary _string
= str(re mai nder)+ binary -
_string
        number =
number//2
    print ("Binary string
is", binary _st ring)
```

Palindrome 9/10 (cont)

```
> break
else:
    print("Length of the word is: ",(length))

    function_return = isPalindrome(user_
word)
    if function_return == True:
        print(user_word, "is a palindrome")
    else:
        print(user_word, "is not a palidr-
ome")
```

Area of Triangle Function

```
def areaOfTriangle(base,height):
    return base2*height)
user_base = float( inp -
ut( 'Enter the base of triangle:
'))
user_h eight = float( inp -
ut( 'Enter the height of
triangle: '))
print ( 'The area of Triangle is:
',area OfT ria ngl e(u ser _ba -
se, use r_h eight))
def volume OfP ris m(a -
rea ,dept):
    return (area* dept)
user_dept = float( inp -
ut( 'Enter the dept of the
Prism: '))
print ( 'The volume of Prism is:
',volu meO fPr ism (ar eaO fTr -
ian gle (us er_ bas e,u ser -
_he igh t), (us er_ dept)))
```

Palindrome 9/10

```
def isPalindrome(word):  
    reverse = ""  
    for item in word:  
        reverse = item +  
reverse  
    if reverse == word:  
        return True  
    else:  
        return False  
  
while True:  
    use_r_word =  
input( 'What is the word: ' )  
    length = len(us er_ -  
word)  
    if user_word == 'quit':
```

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