

### additon

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

### functions

print()	displays information on the screen
input()	receives information from the user
int()	converts a value to an integer
float()	change the number into decimal
len()	count the string
str()	change the value into string

### codes

```
print (name.upper())
print (name.lower())
print (name.capitalize())
print (name.title())
```

### vocabulary

variable	holds a value and can be changed
string	a list of characters such as numbers, letters, symbols

### math symbols

==	equal to
!=	not equal to
+	plus
-	minus
*	times
/	divide
%	remainder
**	power
<	lessthan
>	more than
<=	less than or equal to
>=	more than or equal to

### function loop-

```
def createlist (quitword):
    print('keep entering words to
add to the list')
    print('quit when word=',
quitword)
    mylist = []
    while True:
        user_word = input('enter a
word to add to the list')
        If user_gord == quitwords:
            return my list
        dulplicateword = False
        for item in mylist
            if item == user_word
                duplicateword == true
        if (duplicatedword ==
True):
            print ('duplicate
word!')
        else:
            mylist.append(user_word
)

userlist = createlist("hello")
print(userlist)
```



### Multiplication and Exponents

string \* number    combine that string multiple times

string \* string    crash

number \* number    math multiply

string \*\* string    crash

number \*\* number    math exponents

string \*\* number    crash

### python shop code

```
print ("welcome to our shop")
price=0
size=('s','m','l','xl')
colour=('red','black','white')
sock=('want','not want')
print (size)
shirt = (input('what shirt size do you want?'))
if shirt == ('s'):
    price = price+70
elif shirt == ('m'):
    price = price+80
    print( "the price now is",price)
elif shirt == ('l'):
    price = price+90
    print( "the price now is",price)
elif shirt == ('xl'):
    price = price+100
    print( "the price now is",price)
else:
    print("our shop doesn't have this size.")
print (colour)
shirtcolour= (input('what colour of shirt do you want?'))
if shirtcolour == ('red'):
    price = price+70
    print( "the price now is",price)
elif shirtcolour ==('black'):
    price = price+80
    print( "the price now is",price)
elif shirtcolour ==('white'):
```

### python shop code (cont)

```
    print( "the price now is",price)
elif shirt == ('m'):
    price = price+80
    print( "the price now is",price)
elif shirt == ('l'):
    price = price+90
    print( "the price now is",price)
elif shirt == ('xl'):
    price = price+100
    print( "the price now is",price)
else:
    print("our shop doesn't have this size.")
print (colour)
shirtcolour= (input('what colour of shirt do you want?'))
if shirtcolour == ('red'):
    price = price+70
    print( "the price now is",price)
elif shirtcolour ==('black'):
    price = price+80
    print( "the price now is",price)
elif shirtcolour ==('white'):
```

### python shop code (cont)

```
    price = price+90
    print( "the price now is",price)
else:
    print("our shop don't have this colour")
print (size)
pant = (input('what pant size do you want?'))
if pant == ('s'):
    price = price+70
    print( "the price now is",price)
elif pant == ('m'):
    price = price+80
    print( "the price now is",price)
elif pant == ('l'):
    price = price+90
    print( "the price now is",price)
elif pant == ('xl'):
    price = price+100
    print( "the price now is",price)
else:
    print("our shop doesn't have this size.choose again")
```



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Published 15th February, 2016.

Last updated 7th March, 2016.

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