

### function python

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

### symbol math

|    |                       |
|----|-----------------------|
| == | equal to              |
| != | unequal to            |
| >  | more than             |
| <  | less than             |
| >= | more than or equal to |
| <= | less than or equal to |

### vocabulary

|          |                                                        |
|----------|--------------------------------------------------------|
| variable | hold a value and can be change                         |
| input    | gain information from user                             |
| string   | a list of character such as number, letter and symbols |
| integer  | whole number or counting number                        |
| float    | the number in decimal number                           |
| syntax   | grammar or structure of language                       |
| value    |                                                        |

### addition python

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

### multiplication and exponents python

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

### Reverse word

```
while = loop
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)
```

### 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)
```



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