

1

input()	show
print()	show answer
int()	number
str()	
float()	change number to decimal
while	loop
if: elif else:	
Boolean	True/False
len()	length of
in	in
import random	import
random.choice(m- ylist)	random in mylist
while True	forever loop
range()	range(5)=0,1,2,3,4

5 Reverse

```
word = input("Please enter your name: ")
index = 0
reverse = ''
while index < len(word):
    reverse = word[index] + reverse
    index = index + 1
print ("Reverse: ",reverse)
```

area

```
def areaofellipse(radius1,radius2):
    -pi=3.1415
    -area=pi*radius1*radius2
    -return area
area1=areaofellipse(2,3)
print(area1)
```

evenodd count

```
evencount=0
oddcoun=0
while True:
    -num=int(input("Enter a positive integer. "))
    -if num<0:
        --print("Even numbers:",evencount)
        --print("Odd numbers:",oddcoun)
        --break
    -else:
        --if(num%2)==0:
            ---evencount=evencount+1
        --else:
            ---oddcoun=oddcoun+1
```

2

+	add
-	subtract
/	divide (ans in float/decimal)
**	power
*	multiply
=	assign a value
==	compare 2 values
!=	not equal to
>	more than
<	less than
>=	more than or equal to
<=	less than or equal to
:	for user to enter
#	comments (do not show)
%	remainder
//	divide(ans in integer) 2.5=2
3(3+1)	CRASH because no *. Have to be 3*(3+1)

6 binary

```
user_number = ''
while user_number != '0' :
    user_number = 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)
```

fibonacci

```
num1=0
num2=1
fibonacci=num1+num2
myoutput="0,1"
while fibonacci<50:
    -myoutput=myoutput+", "+str(fibonacci)
    -num1=num2
    -num2=fibonacci
    -fibonacci=num1+num2
    print(myoutput)
```

hex

```
while True:
    -user_number=input("Enter a number:")
    -num=int(user_number)
    -hex_string=""
    -while(number>0):
        --remainder=number%2
        --if remainder==10:
            ---remainder="A"
        --elif.....
        --hex_string=str(remainder)+hex_string
    --num=num//16
    -print("Hexadecimal string is 0x"+hex_string)
```

3

naming consention	letters	a,A,_,
	numbers	
	underscore_	

4

string+string	fusion
string+number	crash
number+number	normal math
string*string	crash
string*number	fusion
number*number	normal math
string**string	crash
string**number	crash
number**number	normal math

while

```
0      mystring=""
01     count=0
012    while count<5:
0123   -mystring=mystring+str(count)
01234   -print(mystring)
        -count=count+1
```

while

```
mylist=[1,2,3]
num=0
while num<len(mylist):
-print(mylist[num])
-num=num+1
```



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Page 2 of 2.

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