

Fibonacci

```
index = 0
index2 = 0
Fibo = ""
while index < 50:
    if index == 0:
        Fibo = Fibo +
str(index)
        index = index
+ 1
    elif index > 0:
        Fibo = Fibo +
", " + str(index)
        index = index
+ index2
        index2 =
index-index2
print (Fibo)
```

Reverse Word

```
while True:
    word =
input("Please enter a
word")
    index = 0
    reverse = ""
    while
int(index) <
len(word):
        rev
erse = word[index] +
(reverse)
        ind
ex = int(index) + 1
        print ("Revers
e: ",reverse)
```

even and odd

```
even = 0
odd = 0
while True:
    mynum =
int(input("Enter the
positive number: "))
    if mynum > 0:
        if mynum%2 ==
0:
            even =
even + 1
        elif mynum%2
!= 0:
            odd =
odd+1
        elif mynum < 0:
            break
    print (even, (" of
them are even.))
    print (odd, (" of
them are odd.))
```

Guessing Game

```
import random
mylist = ['happy',
'love', 'flower',
'golden',
'valentine',
'rainbow']
score = 0
chance = 5
print (mylist)
random_item =
random.choice(mylist)
while chance > 0 :
    user_guess =
input("Guess a word:
")
```

Guessing Game (cont)

```
if user_guess == random_item:
    print ("That's correct!")
    score = score + 100
    print ("Score: ",score)
    random_item =
random.choice(mylist)
else:
    chance = chance - 1
    print ("Chance Remaining:
",chance)
    if user_guess in mylist:
        print ("Sorry, wrong
choices")
    else:
        print ("Sorry, that is not
even in the list !")
print ("Final Score: ",score)
print ("Game Over!The word
was",random_item)
```

While loop list

```
whileList =
['Guy', 'Pop', 'Pat', 'Kim', 'Cliff', 'Anon']
index = 0
while index < len(whileList):
    print (whileList[index])
```

While loop list (cont)

```
index = index + 1
```

Max value in list

```
#Example 1
def max2(num1, num2):
    maxvalue = num1
    if num2 >
maxvalue:
        maxvalue =
num2
    return maxvalue
print (max2(3,5))
#Example 2
def max3(num1, num2,
num3):
    maxvalue = num1
    if num2 > num3 >
maxvalue:
        maxvalue =
num2
    elif num3 > num2>
maxvalue:
        maxvalue =
num3
    return maxvalue
print (max3(3,5,9))
#Example 3
def maxlist(list):
    maxvalue =
list[0]
    for num in list:
        if maxvalue <
num:
            maxvalue
= num
    return maxvalue
print
(maxlist(range(0,56))
)
```

area of circle calculation

```
def areaOfCircle(r):
    if r <= 0:
        return "Error"
    pi = 3.1415
    area = pi*r*2
    return area
user_radius =
float(input("Enter the
radius: "))
radius =
float(user_radius)
print ("the area of the
circle
is",areaOfCircle(radius))
```

palindrome (cont)

```
        if
isPalindrome(word) == True
:
            palindrome =
(word + str(" is a
palindrome."))
        else :
            palindrome =
(word + str(" is not a
palindrome."))

print(palindrome)
```

palindrome

```
def isPalindrome(word):
    index = 0
    while index <
1/2*len(word):
        if word[index]
== word[len(word)-1-
index] :
            index =
index+1
        else :
            return False
    return True
while True:
    word = input("Enter
your word: ")
    if word ==
str("quit"):
        break
    else:
```

