

Function

`print()` PRINT an information on the screen

`input()` ASK for an information

`str()` Change an information into a STRING

`int()` Change an information into a INTEGER

`float()` Change an information into a DECIMAL

`len()` LENGTH of the string

`#` Used to COMMENT what we've done

`'''` MULTI line COMMENT

CODE: Countdown Number

```
user_number = input("Please
enter a number: ")
number = int(us er_ number)
countd own _string = " "
while number > 0:
    cou ntd own _string =
countd own _string + " " +
str(nu mber)
    number = number-1
print (count dow n_s tring)
```

CODE: Define Ex

```
def hello ():
    print ("Hello it's
Pooh")
    return
hello()
Ans : Hello it's Pooh
def myprin t(t ext):
    print (" " + str(text) +
" ")
```

CODE: Define Ex (cont)

```
> return
myprint(1)
Ans : 1
def mynewprint(text,decor) :
    print(decor + str(text) + decor)
    return
mynewprint(1, "+++")
mynewprint(555, "+++")
Ans : +++1+++
+++555+++
def doublelt (number) :
    return number * 2
print (doublelt(5))
myvar = 12
myvar = doublelt(myvar)
print (myvar)
Ans : 10, 24
def AreaOfCircle(r):
    if r <= 0:
        return "Error: invalid radius"
    pi = 3.1415
    area = (pi*(r2))
    return area
user_radius =input("Enter your radius: ")
r = float(user_radius)
print ("The area of your circle is", AreaOf-
Circle(r))
```

Math

`==` Equal to

`!=` Not equal to

`<` Less than

`>` Greater than

`<=` Less than or Equal to

`>=` More than or Equal to

`*` Multiply

`**` Power (Exponent)

`/` Divide (The ans. is in FLOAT form)

`//` Divide (The ans. is in INTEGER form)

`%` Modulo (Find the remainder)

CODE: Reversing word

```
word = input("Type in an word:
")
reverse = " "
for letter in word:
    reverse = letter +
reverse
print ("Re verse: ", reverse)
```

CODE: Convert Int to Hexadecimal

```
while True:
    use r_ n umber =
input( " Please enter the
number: ")
    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
pri nt( " Binary string
is", binary _st ring)
```

CODE: Palindrome (Way1)

```
user_input = input("Type in your
string: ")
reverse = ""
for letter in user_input:
    reverse = letter +
reverse
print ("Re verse: ", reverse)
palindrome = reverse
if User_input == palind rome:
    print ("Your input is
palind rom e")
else:
    print ("Your input is
not palind rom e")
```

Math with STRING and INTEGER

str + str Squishes them together

int + int Do math (Add)

int * int Do math (Multiply)

int ** Do math (Exponent)

int

str * int combines the strings x number
time

str + int CRASH

str * str CRASH

str ** CRASH

int

CODE: Str, Fp, Int Random Ex

```
import random
intlist = [1,2,3 ,4, 5,5 000 -
0000]
random_list = random.ch oic -
e(i ntlist)
print( int list, random _list)
----- --- --- --- --- --- ---
- --- --- --- -----
fplist = [1.1,1.2, -
1.3 ,1.4 ,1.5, 5.0 00000]
random_fp = random.ch oic e(f -
plist)
print( fplist, random_fp)
strlist = ["on e","t wo", " -
thr ee", " fou r","f -
ive " ,"te n"]
random_str = random.ch oic e(s -
trlist)
print( str list, random _str)
mylist = [1, 1.1, " one "]
random_item = random.ch oic -
e(m ylist)
print( mylist, random _item)
myvar1 = 1
myvar2 = 2
myvar3 = 3
varlist = [myvar1, myvar2,
myvar3]
random_var = random.ch oic e(v -
arlist)
print( var list, random _var)
```



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Published 12th February, 2016.

Last updated 11th May, 2016.

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