

### 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(user_number)
countdown_string = ""
while number > 0:
    countdown_string =
countdown_string + " " +
str(number)
    number = number-1
print (countdown_string)
```

### CODE: Define Ex

```
def hello ():
    print ("Hello it's Pooh")
    return
hello()
Ans : Hello it's Pooh
def myprint(text):
    print (" " + str(text) + " ")
    return
myprint(1)
Ans : 1
def mynewprint(text,decor) :
    print(decor + str(text) +
decor)
    return
mynewprint(1, "+++")
mynewprint(555, "+++")
Ans : +++1+++
+++555+++
```

### CODE: Define Ex (cont)

```
def doubleIt (number) :
    return number * 2
print (doubleIt(5))
myvar = 12
myvar = doubleIt(myvar)
print (myvar)
Ans : 10, 24
def AreaOfCircle(r):
    if r <= 0:
        return "Error: invalid
radius"
    pi = 3.1415
    area = (pi (r*2))
    return area
user_radius =input("Enter your
radius: ")
r = float(user_radius)
print ("The area of your circle
is", AreaOfCircle(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 ("Reverse: ", reverse)
```

### CODE: Convert Int to Hexadecimal

```
while True:
    user_number = input("Please
enter the number: ")
    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)
```

### CODE: Palindrome (Way1)

```
user_input = input("Type in your
string: ")
reverse = ""
for letter in user_input:
    reverse = letter + reverse
print ("Reverse: ", reverse)
palindrome = reverse
if User_input == palindrome:
    print ("Your input is
palindrome")
else:
    print ("Your input is not
palindrome")
```

### Math with STRING and INTEGER

str + str	Squishes them together
int + int	Do math (Add)
int * int	Do math (Multiply)
int ** int	Do math (Exponent)
str * int	combines the strings × number time
str + int	CRASH
str * str	CRASH
str ** int	CRASH

### CODE: Str, Fp, Int Random Ex

```
import random
intlist = [1,2,3,4,5,50000000]
random_list = random.choice(intlist)
print(intlist, random_list)
-----
fplist = [1.1,1.2,1.3,1.4,1.5,5.000000]
random_fp = random.choice(fplist)
print(fplist, random_fp)
strlist =
["one","two","three","four","five","ten"]
random_str = random.choice(strlist)
print(strlist, random_str)
mylist = [1, 1.1, "one"]
random_item = random.choice(mylist)
print(mylist, random_item)
myvar1 = 1
myvar2 = 2
myvar3 = 3
varlist = [myvar1, myvar2, myvar3]
random_var = random.choice(varlist)
print(varlist, random_var)
```



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