1. WAP to check odd/even

# A simple Python function to check

# whether x is even or odd

def evenOdd( x ):

    if (x % 2 == 0):

        print "even"

    else:

        print "odd"

# function call

evenOdd(2)

evenOdd(3)

1. WAP to add any number both using return type and no return type.

#return type function

def add\_r(a, b):

""" return type function to find sum """

x = a + b

return x

#non return type function

def add\_n(a, b):

""" non return type function to return sum """

x = a + b

print (x)

#call the return type function and print

print (add\_r(2,3))

#call the non return type function

add\_n(2,3)

1. WAP to find max of 3 numbers.

def max\_of\_two( x, y ):

if x > =y:

return x

return y

z=max\_of\_two(4,5)

print(max\_of\_three(z, -5))

1. WAP to find square and cube of given number.

# python program to find square and cube

# of a given number

# User defind method to find square

def square (num):

return (num\*num)

# User defind method to find cube

def cube (num) :

return (num\*num\*num)

# Main code

# input a number

number = int (input("Enter an integer number: "))

# square and cube

print "square of {0} is {1}".format(number, square(number))

print "Cube of {0} is {1}".format(number, cube (number))

1. WAP to make a simple calculator.

# define functions

def add(x, y):

   """This function adds two numbers""”

   return x + y

def subtract(x, y):

   """This function subtracts two numbers"""

   return x - y

def multiply(x, y):

   """This function multiplies two numbers"""

   return x \* y

def divide(x, y):

   """This function divides two numbers"""

   return x / y

# take input from the user

print("Select operation.")

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

choice = input("Enter choice(1/2/3/4):")

num1 = int(input("Enter first number: "))

num2 = int(input("Enter second number: "))

if choice == '1':

   print(num1,"+",num2,"=", add(num1,num2))

elif choice == '2':

   print(num1,"-",num2,"=", subtract(num1,num2))

elif choice == '3':

   print(num1,"\*",num2,"=", multiply(num1,num2))

elif choice == '4':

   print(num1,"/",num2,"=", divide(num1,num2))

else:

   print("Invalid input")

1. WAP to find factorial using recursion.

def recur\_factorial(n):

   if n == 0:

       return 1

   else:

       return n\*recur\_factorial(n-1)

# take input from the user

num = int(input("Enter a number: "))

# check is the number is negative

if num < 0:

   print("Sorry, factorial does not exist for negative numbers")

elif num == 0:

   print("The factorial of 0 is 1")

else:

   print("The factorial of",num,"is",recur\_factorial(num))

1. WAP to find fibonacci series using recursion.

def recur\_fibo(n):

   if n <= 1:

       return n

   else:

       return(recur\_fibo(n-1) + recur\_fibo(n-2))

# take input from the user

nterms = int(input("How many terms? "))

# check if the number of terms is valid

if nterms <= 0:

   print("Plese enter a positive integer")

else:

   print("Fibonacci sequence:")

   for i in range(nterms):

       print(recur\_fibo(i))

1. Write a Python function to sum all the numbers in a list.

def sum(numbers):

total = 0

for x in numbers:

total += x

return total

print(sum((8, 2, 3, 0, 7)))

1. Write a Python program to reverse a string.

def string\_reverse(str1):

rstr1 = ''

index = len(str1)

while index > 0:

rstr1 += str1[ index - 1 ]

index = index - 1

return rstr1

print(string\_reverse('1234abcd'))