Python practical

# write a python prog to demonstrate a function can return multiple value

# write a python prog to slove folllowing equations

def solve(a,b,c,d,e,f):

x=(d\*e-b\*f)/(a\*d-b\*c)

y=(a\*f-c\*e)/(a\*d-b\*c)

return[x,y]

n1=int(input("enter a number"))

n2=int(input("enter a number"))

n3=int(input("enter a number"))

n4=int(input("enter a number"))

n5=int(input("enter a number"))

n6=int(input("enter a number"))

xsol,ysol=solve(n1,n2,n3,n4,n5,n6)

print("the solution is=",xsol,"and y=",ysol)

enter a number1

enter a number2

enter a number3

enter a number4

enter a number5

enter a number6

('the solution is=', -4, 'and y=', 4)

>>>

INPUT

# write a python function to compute max. and min. from the given list using single function ?

def maxmin(num\_list):

return (max(num\_list),min(num\_list))

weekly\_temps=[45,30,52,58,62,48,49]

high,low=maxmin(weekly\_temps)

print("HIGHEST TEMPERATURE",high);

print("LOWEST TEMPERATURE",low);

output

==================== RESTART: C:/Python27/temperature.py ====================

('HIGHEST TEMPERATURE', 62)

('LOWEST TEMPERATURE', 30)

>>>

#write a python program to display thr countdown of given no

def countdown(n):

while n>=0:

if (n!=0):

print(n)

else:

print(n)

n=n-1

x=int(input("enter the number for countdown"))

countdown(x)

OUTPUT: enter the number for countdown5

5

4

3

2

1

0

#Write a python function to compute simple interest also demonstrate usage of default parameter ?

def simple\_int(amt,period,rate=7.8):

SI=0

SI=(amt\*period\*rate)/100

return SI

amount=int(input("enter principal amt"))

n=int(input("enter duration period"))

answer=simple\_int(amount,n)

print("simple interest with rate 7.8 is",answer)

answer1=simple\_int(amount,n,9.8)

print("simple interest with rate 9.8 is",answer1)

OUTPUT:

enter principal amt54

enter duration period2

('simple interest with rate 7.8 is', 8.424)

('simple interest with rate 9.8 is', 10.584000000000001)

>>>

#Write a python function to compute percentage and grade where marks of five subjects are entered by user also demonstrate using keyword argument ?

def calculate(m1,m2,m3,m4,m5):

grade=' '

per=(m1+m2+m3+m4+m5)/5

print(per)

if per>=90:

grade='o'

elif per<90 and per>=80:

grade='a'

elif per<80 and per>=70:

grade="b"

elif per<70 and per>=60:

grade="c"

elif per<60 and per>=50:

grade="d"

elif per<50 and per>=40:

grade="e"

else:

grade="fail"

return grade

answer=calculate(m2=90,m1=80,m5=30,m4=70,m3=88) #keyword\_parameter

print "your grade is", answer

OUTPUT:

71

your grade is b

>>>