

7.) Write python program to sort both in ascending and descending order for the following list
`L1=[123, 'xyz', 'zara', 'abc', 'xyz'];`

8.) Using the tuple `t = (('a', 0), ('c', 2), ('b', 1))`, Write a python program to generate dictionary `dict()`

9.) write a python program which converts Fahrenheit to Celsius

Note: $\text{Celsius} = (\text{Fahrenheit} - 32) * 5.0/9.0$ and use `raw_input` to accept the Fahrenheit from the keyboard

- 4.) Suppose that there is a list which contains the id number, mid and final marks of four students. The program uses a dictionary, where the key is the ID of the student and value is a list containing the mid and final result of student, like this { "R/1212/09": [35, 40], "R/1213/09": [25, 45], ... } .

Id	Mid exam (40%)	Final exam (60%)	Total ✓
R/1212/09	35	40	
R/1213/09	25	45	
R/1214/09	34	54	

- A.) Calculate the total marks of each student and append them to your original lists inside the dictionary:

Similar to { "R/1212/09": [35, 40, 75], "R/1213/09": [25, 45, 65], ... }

- B.) Write a python program that print top 2 students (id and total) based on total

- C.) Print the dictionary in the following format

Grade distribution			
Id	mid exam	final exam	total

- 5.) Write a python program count all words in word.txt longer than 6 letters print these words and the number of such words.

Note: assume you have word.txt file in your disk

- 6.) Write a python program that insert the word "me" at the second index and append "mess" in the following list

List1=["take", "out", "from"]

List1.insert(2, "me")
List1.append("mess")



998/999

Part one:

1.) Use the dictionary `eng2sp = {'one': 'uno', 'two': 'dos', 'three': 'tres'}` and identify true and false expressions and give reason for your answer?

- A. `len(eng2sp)` is 3 *True*
 B. `'one' in eng2sp` *True*
 C. `'uno' in eng2sp` *False*
 D. `print eng2sp['four']` *False*

2.) What is the output of the following python program? write the output in the space provided

```
def sum( a , y, b= 4 , c= 5 ) :
```

```
    total=x * y * z
```

```
    print total
```

```
sum()
```

```
sum(11)
```

```
sum(11,22)
```

```
sum(11,22,30)
```

3.) What is the output of the following python program? write the output in the space provided

```
x= [20,3,30,8]
```

```
sum=0
```

```
for i in x:
```

```
    sum+=i
```

```
print sum
```

```
print x[2:4]
```

```
print x
```

```
x[1:3]=[7,66]
```

```
print x
```

```
print 30 in x
```

61 [30, 8] [20, 3, 30, 8] [20, 7, 66, 8] True False [20, 7, 66, 8]	61 [30, 8] [20, 3, 30, 8] [20, 7, 66, 8] True False
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c) What will be the value of x and z after executing

```
x = [2,4,6]
y = [8,10,12]
x += y
x[-1] += 14
x += [20]
z = x[-1] + x[-2]/2
print "x=",x
print "z=",z
```

$x = [2, 4, 6]$
 $z = [24, 6, 14]$

d) What is the output of the following program?

```
a = [1, 2, 3, 4, 1, 2]
b = [1, 2, 3, 4, 1, 2]
c = ('sagni', 'Abebe', 'chaltu', 'lemlem')
names = []
names.append(c)
d = names
print (d == names)
names.append('Nathan')
print (a == b, a is b)
print (d is names, names == d)
```

$d = ('Abebe', 'chaltu', 'lemlem', 'Nathan', 'sagni')$
 $a = [1, 2, 3, 4, 1, 2]$
 $d = ('sagni', 'Abebe', 'chaltu', 'lemlem')$

e) What is the output of the following function?

```
def Run():
    a = [3, 7]
    for i in range(3):
        a.append(a[-2] + i)
        a[i] -= a[i+1]
    print a[1:-1]
Run()
```

$[4, 8]$

Adama Science and Technology University
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CSE1011 Quiz 2

Semester I, 2016/17

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Maximum mark 15%

Group: 36

1. Write the output of the following python programs on the space provided.

a) What will be the final value of b after the loop?

```
b = 5
for a in range(1, 10, 3):
    if a % 5 == 0:
        b *= 3
    else:
        b += a
print b
```

(15, 10, 3)

b) Given the following two functions, what will fun1 (2,3) return?

```
def fun1(a, b):
    list1 = [a, b]
    for x in range(4):
        list1.append( fun2(list1) )
    return list1
def fun2(y):
    return y[-1] + y[-2]
res=fun1(2,3)
print res
```

(3, 2)