



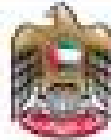
COMPUTER SCIENCE TERM 3 (2017 – 18)

GRADE 11 - SUMMATIVE ASSESSMENT MARKING RUBRIC AND ANSWER KEY

SUMMATIVE ASSESSMENT GRADE 11 RUBRIC

ALIED Date: 2011

Criteria No.	Criteria	Marks Awarded		
		0	5	10
1	Developed code to create a data structure and input values into the data structure.	No efforts made, or clear lack of data structure or input implementation.	Student attempted, but was unsuccessful in developing code to create a data structure and input values into the data structure.	Student has successfully developed code to create a data structure and input values into the data structure.
2	Developed code to use data structure operations.	No efforts made, or clear lack of data structure operations implementation.	Student attempted, but was unsuccessful in developing code to use data structure operations.	Student has successfully developed code to use data structure operations.
3	Developed code to use appropriate control structures (for / while loops).	No efforts made, or clear lack of control structure implementation.	Student attempted, but was unsuccessful in developing code to use appropriate control structures (for / while loops).	Student has successfully developed code to use appropriate control structures (for / while loops).
4	Developed code to output a data structure and its values.	No efforts made, or clear lack of data structure output implementation.	Student attempted, but was unsuccessful in developing code to output a data structure and its values.	Student has successfully developed code to output a data structure and its values.
5	Developed code to successfully compile and execute. Code and output successfully saved to .pdf.	No efforts made, or no documentation given.	Student attempted, but was unsuccessful in developing code to compile and execute. Code and output were not saved to .pdf correctly.	Student has successfully developed code to successfully compile and execute. Code and output were successfully saved to .pdf.
Total				/ 50



SUMMATIVE ASSESSMENT GRADE 11 ANSWER KEY

Coding answers may vary. We request the teachers to take professional judgement for marking the project. It is common knowledge that there is no one way of coding, and that coding styles differ. But it is recommended to use the format/structure given for expected output generation for assessment.

Question 1:

Design a program in Python that will store a list of all the days of the week (in the order of weekdays, then weekends). The list's values will be added by the user on screen. From this list, the program will create 2 sub lists ('weekdays' (containing the week days) and 'weekend' (containing the weekend days)). Using a for loop, the program will one by one print on screen all the week days.

Please include your School, Student number, Student name, Grade and Question number in your code, and output.

Answer/الإجابة:

```
print("School: Al Qeann Boys Cycle 3 ")
print("Student Number (SIS): 12345678 ")
print("Student Name: Abdulla Mohammed ")
print("Grade: 11 ")
print("Question 1 ")
print("*****")

# add the list's values by the user on screen
days = [0,0,0,0,0,0,0]
for num in range(0,7,1):
    print("Enter day", num + 1)
    value = input()
    days[num] = value

# create the weekdays and weekend lists
weekdays = days[0:5]
weekend = days[5:7]

# print one by one on screen the list's values, using a for loop
for x in range (0,5,1):
    print(weekdays[x])

# End of program
print("---- Finished ----")
```



Question 2:

Design a program in Python that uses a while loop to create a list of vegetable names. The list's values will be added by the user on screen. The program will then delete the second list item, and then print the list to a file called "vegetablesFile.txt").

Please include your School, Student number, Student name, Grade and Question number in your code, and output.

```
print("School: Al Qeann Boys Cycle 3 ")
print("Student Number (SIS): 12345678 ")
print("Student Name: Abdulla Mohammed ")
print("Grade: 11 ")
print("Question 2 ")
print("*****")

# Using a While loop, add the list's values by the user on screen
vegetables = []
finish = "n"

while finish == "n":
    vegetableName = input("Enter the vegetable name:")
    vegetables.append(vegetableName)
    finish = input("Finished?(y/n)")

# delete the second item in the list
del vegetables[1]

outfile = open("vegetablesFile.txt", "w")
vegetables = str(vegetables)
outfile.write(vegetables)
outfile.close()

# End of program
print("---- Finished ----")
```



Question 3:

Design a program in Python that uses a for loop to create 2 lists of indoor and outdoor sport names (1 list containing indoor sports and 1 list containing outdoor sports). The lists' values will be added by the user on screen. The program will then join the lists into another single list, and then print on screen all values in the single list

Please include your School, Student number, Student name, Grade and Question number in your code, and output.

```
print("School: Al Qeann Boys Cyole 3 ")
print("Student Number (SIS): 12345678 ")
print("Student Name: Abdulla Mohammed ")
print("Grade: 11 ")
print("Question 3 ")
print("*****")

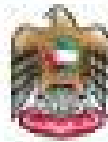
# add the indoor list's values by the user on screen, using a FOR loop
indoorSports = []
for num in range(0,3,1):
    print("Enter indoor sport ", num + 1)
    value = input()
    indoorSports.append(value)

# add the outdoor list's values by the user on screen, using a FOR
loop
outdoorSports = []
for num in range(0,6,1):
    print("Enter outdoor sport ", num + 1)
    value = input()
    outdoorSports.append(value)

# join the lists to make a single list
allSports = indoorSports + outdoorSports

# print all the list's values
print(allSports)

# End of program
print("---- Finished ----")
```



Question 4:

Design a program in Python that will create a dictionary of the recent iPhone models, and their release date. The dictionary's values will be handwritten into the code.

Phone 5	2012
Phone 6	2014
Phone 7	2016
Phone 8	2018
Phone 10	2017

The program will then delete the item for the 'iPhone 7' dictionary item, and then print on screen the dictionary items. Print the release date of the 'iPhone 8.'

Finally, using a for loop, your program should print on screen the text 'iPhone' 3 times

Please include your School, Student number, Student name, Grade and Question number in your code, and output

```
print("School: Al Qasab Boys Cycle 3 ")
print("Student Number (SID): 12345678 ")
print("Student Name: Abdulla Mohammed ")
print("Grade: 11 ")
print("Question 4 ")
print("*****")

# create a dictionary of the recent iPhone models, and their release
date
iPhoneDates = {"iPhone 5":2012,"iPhone 6":2014,"iPhone
7":2016,"iPhone 8":2018,"iPhone 10":2017}

# delete the 'iPhone 7' dictionary item
del(iPhoneDates["iPhone 7"])

# print on screen the dictionary items:
print(iPhoneDates.keys())

# print on screen the release date of the 'iPhone 8' dictionary item.
print(iPhoneDates["iPhone 8"])

# print on screen the word 'iPhone' 3 times
for num in range(0,3,1):
    print("iPhone")
```



Question 5:

Design a program in Python that uses a for loop to create a list of 7 fruit names. The list's values will be added by the user on screen. The program will then change value for the third list item, and then print the list to a file called "fruitsFile.txt").

Please include your School, Student number, Student name, Grade and Question number in your code, and output.

```
print("School: Al Qasr Boys Cycle 3 ")
print("Student Number (SID): 12345678 ")
print("Student Name: Abdulla Mohammed ")
print("Grade: 11 ")
print("Question 5 ")
print("*****")

# add the list's values by the user on screen, using a FOR loop
fruits = [0,0,0,0,0,0,0]
for num in range(0,7,1):
    print("Enter fruit", num + 1)
    value = input()
    fruits[num] = value

# change the third item in the list's value
fruits[2] = 'strawberry'

# print the list's values to a file
outfile = open("fruitsFile.txt", "w")
fruits = str(fruits)
outfile.write(fruits)
outfile.close()

# End of program
print("--- Finished ---")
```

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