

نموذج رقم:	 الكلية الجامعية للعلوم التطبيقية University College of Applied Sciences	رقم الطالب في كشف الحضور:
اسم المساق: لغة برمجة (عملي)		عدد صفحات الامتحان: 3
رقم المساق: DSAI 1101		اسم الطالب/ة رباعي:
مدة الامتحان: ساعتين		الرقم الجامعي:
وقت الامتحان: 13:00 – 15:00		رقم الشعبة: 201
تاريخ الامتحان: 3/1/2022		اسم المدرس: م. فاطمة عبد الكريم عبد العزيز

رصد درجات الطالب

### Question 1:

(10 Marks)

Write a program that reads in a string and prints whether it

- Contains only uppercase letters.
- Starts with an uppercase letter.
- Contains only letters.
- Contains only digits.
- Contains only letters and digits.
- Ends with a comma.

Note: if the user input does not meet any of the above conditions print, “No condition was met.”

Enter a string: <b>FATEMAH</b> Contains only uppercase letters.	Enter a string: <b>Fatemah</b> Starts with an uppercase letter.	Enter a string: <b>fatemah,</b> Ends with a comma	Enter a string: <b>fatemah</b> Contains only letters.
Enter a string: <b>2022</b> Contains only digits.	Enter a string: <b>fatemah23</b> Contains only letters and digits.	Enter a string: \$ No condition was met.	

### Question 2:

(10 Marks)

Write a program that reads a set of floating-point values. Ask the user to enter the values, then print

- The average of the values.
- The smallest of the values.
- The largest of the values.
- The range, that is the difference between the smallest and largest.

Enter a number (0 to stop): 5

Enter a number (0 to stop): 2

Enter a number (0 to stop): -3

Enter a number (0 to stop): 17

Enter a number (0 to stop): 8

Enter a number (0 to stop): 0

Average: 5.8

Smallest: -3.0

Largest: 17.0

Range between smallest and largest: 20.0

### Question 3:

(10 Marks)

Write a function:

```
def repeat(string, n, delim)
```

that returns the string repeated n times, separated by the string delim. For example, repeat("ho", 3, ", ") returns "ho, ho, ho".

Enter a string: good

How many times to repeat the string: 3

Delimiter: ,

good,good,good

#### Question 4:

(10 Marks)

Write a program that initializes a list with ten random integers and then prints four lines of output, containing

- Every element at an even index.
- Every even element.
- All elements in reverse order.
- Only the first and last element.

**The content of the list: [4, -13, -70, -78, -89, -91, -83, -86, -59, -19]**

**Elements at an even index**

4

-70

-89

-83

-59

**Every even element**

4

-70

-78

-86

**All elements in reversed order**

-19

-59

-86

-83

-91

-89

-78

-70

-13

4

**Only the first and last element**

4 -19

انتهت الأسئلة

وتمنياتي لكم بالتوفيق والنجاح