Exercise 2: Append new string in the middle of a given string

Given two strings, `s1` and `s2`. Write a program to create a new string `s3` by appending `s2` in the middle of `s1`.

Given:

```
s1 = "Ault"
s2 = "Kelly"
```

Expected Output:

```
AuKellylt
```

Exercise 4: Arrange string characters such that lowercase letters should come first

Given string contains a combination of the lower and upper case letters. Write a program to arrange the characters of a string so that all lowercase letters should come first.

Given:

```
str1 = PyNaTive
```

Expected Output:

```
yaivePNT
```

Exercise 8: Find all occurrences of a substring in a given string by ignoring the case

Write a program to find all occurrences of “USA” in a given string ignoring the case.

Given:

```
str1 = "Welcome to USA. usa awesome, isn't it?"
```

Expected Outcome:

```
The USA count is: 2
```

Exercise 9: Calculate the sum and average of the digits present in a string

Given a string s1, write a program to return the sum and average of the digits that appear in the string, ignoring all other characters.

Given:

```
str1 = "PYnative29@#8496"
```

Expected Outcome:

```
Sum is: 38 Average is  6.333333333333333
```

Exercise 10: Write a program to count occurrences of all characters within a string

Given:

```
str1 = "Apple"
```

Expected Outcome:

```
{'A': 1, 'p': 2, 'l': 1, 'e': 1}
```

Exercise 13: Split a string on hyphens

Write a program to split a given string on hyphens and display each substring.

Given:

```
str1 = Emma-is-a-data-scientist
```

Expected Output:

```
Displaying each substring

Emma
is
a
data
scientist
```

Exercise 15: Remove special symbols / punctuation from a string

Given:

```
str1 = "/*Jon is @developer & musician"
```

Expected Output:

```
"Jon is developer musician"
```