

1. قم بعمل برنامج يقوم بحساب عدد حروف النص مع احتساب المسافة بين الكلمات، بالإضافة إلى عدد حروف النص دون احتساب المسافات، حيث ستفاعل البرنامج مع هذا النص بالطريقة التالية

```
text = """A computer is a digital electronic machine  
that can be programmed to carry out sequences of  
arithmetic or logical operations automatically"""
```

```
Number of characters with spaces: 138  
Number of characters without spaces: 118
```

{//}

يمكنك إذا لم تصل للإجابة، أن تحاول مرة أخرى بمساعدة الخطوات التالية

```
text = ""A computer is a digital electronic machine that  
can be programmed to carry out sequences of arithmetic or  
logical operations automatically""  
  
# remove all spaces  
  
# get the number of characters
```

{codezi//a}

```
{//}
```

```
text = """A computer is a digital electronic machine that  
can be programmed to carry out sequences of arithmetic or  
logical operations automatically"""  
  
# remove all spaces  
new_text = text.replace(" ", "")  
  
# get the number of characters  
print("Number of characters with spaces: ", len(text))  
print("Number of characters without spaces: ", len(new_text))
```

{codezi//a}

{//}

2. قم بعمل برنامج يتفاعل مع المستخدم بالطريقة التالية

```
Enter your full name: Mohamed Ahmed Mahmoud
Enter your birth date (dd-mm-yyyy): 30-11-1987
Enter the current year: 2022
-----
Hello, Mohamed
Welcome at Age Calculator
-----
Your age is: 35
```

{codezi//a}

{//}

يمكنك إذا لم تصل للإجابة، أن تحاول مرة أخرى بمساعدة الخطوات التالية

```
# get inputs from user

# get first name

# get birth year

# calculate age

# greet user and print age
```

{codezi//a}

```
{//}
```

```
# get inputs from user
name = input("Enter your full name: ")
birth_date = input("Enter your birth date (dd-mm-yyyy): ")
current_year = input("Enter the current year: ")

# get first name
first_name = name.split()[0]

# get birth year
birth_year = birth_date.split("-")[-1]

# calculate age
age = int(current_year) - int(birth_year)

# greet user and print age
print('-'*20)
print(f'Hello, {first_name.title()}\nWelcome at Age Calculator')
print('-'*20)
print(f'Your age is: {age}')
```

{codezi//a}

{//}

3. قم بعمل برنامج آلة حاسبة يتفاعل مع المستخدم بالطريقة التالية

```
Enter The Operation: 1457.8 * 124.234
-----
Multiplication result is 181,108.33
```

{codezi//a}

{//}

يمكنك إذا لم تصل للإجابة، أن تحاول مرة أخرى بمساعدة الخطوات التالية

```
# getting inputs  
  
# convert to float  
  
# check the operator and do the operation  
  
# print the result
```

{codezi//a}


```
{//}
```

```
# getting inputs
first_num, operator, second_num = input('Enter The Operation: ').split()
print('-'*20)

# convert to float
first_num = float(first_num)
second_num = float(second_num)

# check the operator and do the operation
if operator=='+':
    operation_name = 'Addition'
    result = first_num + second_num
elif operator=='-':
    operation_name = 'Subtraction'
    result = first_num - second_num
elif operator=='*':
    operation_name = 'Multiplication'
    result = first_num * second_num
elif operator=='/':
    operation_name = 'Division'
    result = first_num / second_num
elif operator=='**':
    operation_name = 'Power'
    result = first_num ** second_num

# print the result
print(f'{operation_name} result is {result:,.2f}')
```

{codezi//a}