

```
1 # Question 1
2 fullName = input("Enter your first name, middle name and last name: ")
3 firstName = fullName.split()[0]
4 middleName = fullName.split()[1]
5 lastName = fullName.split()[2]
6 print("The initials of the name are %s %s %s" % (firstName.upper()[0], middleName.upper()[0], lastName.upper()[0]))
7
8 # Question 2
9
10 # allIntegersStr exception handling using if statements
11 while True:
12     allIntegersStr = input("Type in 3 integers using 0-9 digits and separate them by spaces: ")
13     if not all(i.isdigit() for i in allIntegersStr.split()):
14         print("You entered %. This uses letters and not the required 0-9 digits."
15             "\nPlease enter again using 0-9:" % allIntegersStr)
16     elif len(allIntegersStr.split()) > 3:
17         print("You entered %. The count is %s integers. This is %s integers over the count requirement of 3." %
18             (allIntegersStr, len(allIntegersStr.split()), len(allIntegersStr.split()) - 3))
19     elif len(allIntegersStr.split()) < 3:
20         print("You entered %. The count is %s integers. This is %s integers under the count requirement of 3." %
21             (allIntegersStr, len(allIntegersStr.split()), 3 - len(allIntegersStr.split())))
22     elif all(i.isdigit() for i in allIntegersStr.split()):
23         break
24
25 firstInteger = int(allIntegersStr.split()[0])
26 secondInteger = int(allIntegersStr.split()[1])
27 thirdInteger = int(allIntegersStr.split()[2])
28 if firstInteger == secondInteger and secondInteger == thirdInteger and thirdInteger == firstInteger:
29     print("sum: 0")
30 elif firstInteger != secondInteger and firstInteger != thirdInteger and secondInteger == thirdInteger:
31     print("sum: %s" % firstInteger)
32 elif secondInteger != firstInteger and secondInteger != thirdInteger and firstInteger == thirdInteger:
33     print("sum: %s" % secondInteger)
34 elif thirdInteger != firstInteger and thirdInteger != secondInteger and firstInteger == secondInteger:
35     print("sum: %s" % thirdInteger)
36 else:
37     print("sum: %s" % (firstInteger + secondInteger + thirdInteger))
38
```

Code

```
Run - nguyen_albert_programming_assignment_1.py
Run: C:\Python311\python.exe "D:\github.com\anguyen798\cs131-47853-homework\Chapter 3\nguyen_albert_programming_assignment_1.py"
Enter your first name, middle name and last name: Albert Duy Nguyen
The initials of the name are A D N
Type in 3 integers using 0-9 digits and separate them by spaces: a b c
You entered a b c. This uses letters and not the required 0-9 digits.
Please enter again using 0-9:
Type in 3 integers using 0-9 digits and separate them by spaces: 1 1
You entered 1 1. The count is 2 integers. This is 1 integers under the count requirement of 3.
Type in 3 integers using 0-9 digits and separate them by spaces: 2 4 5 6
You entered 2 4 5 6. The count is 4 integers. This is 1 integers over the count requirement of 3.
Type in 3 integers using 0-9 digits and separate them by spaces: 2 4 4
sum: 2

Process finished with exit code 0
```

Output