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SUBJECT : PYTHON
ASSIGNMENT : 4

Question4. write a program that receives an integer and prints the sum of its digits. For example, an input 125 will print output 1+2+5=8.

- Try out with the following test cases
- 125
- 12
- 2
- -15

Source code:

```
total = 0
i = int(input("Enter any Integer Number "))
while i > 0:
    total = total + i
    i = int(input("Enter the next integer "))
print("\nThe sum of all numbers are entered in", total)
```

Output:

```
Enter any Integer Number 21
Enter next Integer Number 12
Enter next Integer Number 13
Enter next Integer Number -1
```

```
The sum of all numbers are entered in 46
```

Question5. Develop an application in Python that repeatedly reads numbers until the user enters done. Once done is entered, print out the total,count, and average of the numbers. If the user enters anything others than a number, detect their mistake using try and except and print an error message and skip to the next number.

Source code:

```
num = 0
tot = 0
while True:
    number = input("Enter a number:")
    if number=='done':
        break
    try:
        num1 = int(number)
    except:
        print('Invalid Input')
        continue
    num = num + 1
    tot = tot + num1
    avg = tot / num
print('done')
print('num', num)
print('total', tot)
print('average', avg)
```

Output:

```
Enter a number:2
Enter a number:1
Enter a number:2
Enter a number:done
done
num 3
total 5
average 1.6666666666666667
```
