

Q.1) Write a Python function to check whether a string is a pangram or not.

-> Note : Pangrams are words or sentences containing every letter of the alphabet at least once.

-> For example : "The quick brown fox jumps over the lazy dog"

```
def is_pangram(s):  
    s = s.lower()  
    letters = set(ch for ch in s if ch.isalpha())  
    return len(letters) == 26  
  
print(is_pangram("The quick brown fox jumps over the lazy dog"))
```

True

Q.2) Write a Python program to calculate the sum of the digits in an integer.

```
def sum_of_digits(n):  
    return sum(int(d) for d in str(n))  
print(sum_of_digits(12345))
```

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Q.3) Write a Python program to sort three integers without using conditional statements and loops. [u can use built in functions for this]

```
a, b, c = 9, 3, 6  
sorted_nums = sorted([a, b, c])  
print(sorted_nums)
```

[3, 6, 9]

Q.4) Write a Python function to check whether a number is perfect or not.

```
def is_perfect(n):  
    if n <= 1:  
        return False  
    divisors_sum = sum(i for i in range(1, n) if n % i == 0)  
    return divisors_sum == n  
  
print(is_perfect(6))  
print(is_perfect(28))  
print(is_perfect(12))
```

True
True
False