

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))

15
```

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
```