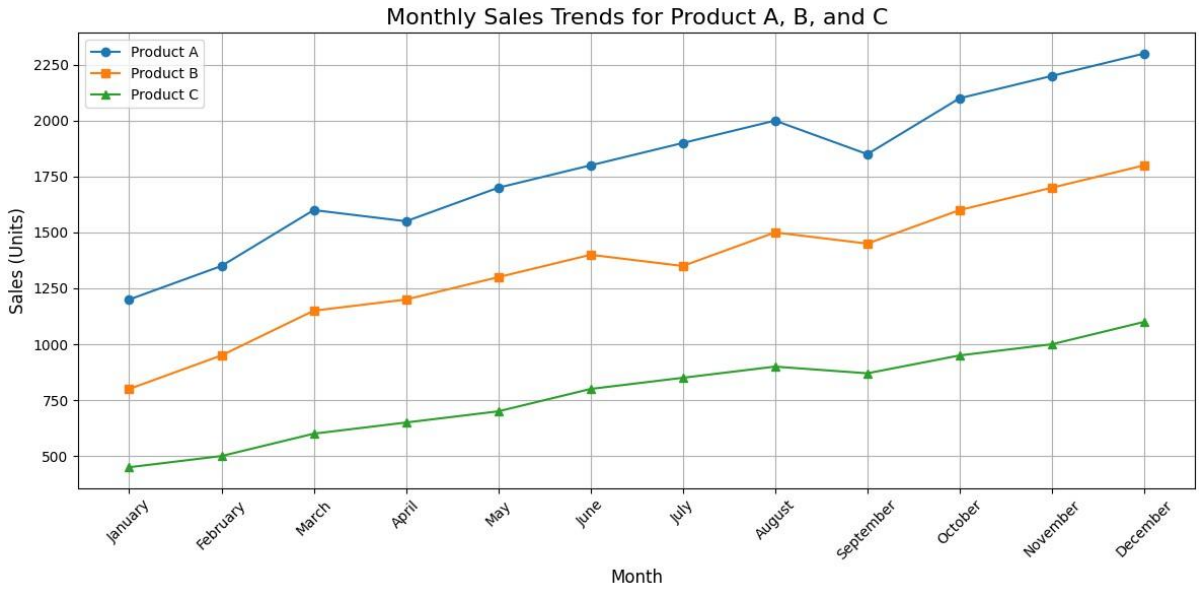
NO : 1

```
import pandas as pd import
matplotlib.pyplot as plt


file_path = 'Monthly Sales.csv'
df = pd.read_csv(file_path)

df.columns = ['Month', 'Product_A', 'Product_B', 'Product_C']

plt.figure(figsize=(12, 6))
plt.plot(df['Month'], df['Product_A'], marker='o', label='Product A')
plt.plot(df['Month'], df['Product_B'], marker='s', label='Product B')
plt.plot(df['Month'], df['Product_C'], marker='^', label='Product C')


plt.title('Monthly Sales Trends for Product A, B, and C', fontsize=16)
plt.xlabel('Month', fontsize=12)
plt.ylabel('Sales (Units)', fontsize=12)
plt.legend()
plt.grid(True)
plt.xticks(rotation=45)

plt.tight_layout()
plt.show()
```



Month	Product_A	Product_B	Product_C
January	1200	800	450
February	2350	950	500
March	1600	1150	600
April	1550	1200	650
May	1700	1300	700
June	1800	1400	800
July	1900	1350	850
August	2000	1500	900
September	1850	1450	870
October	2100	1600	950
November	2200	1700	1000
December	2300	1800	1100

No:2

```
def print_primes_between(start, end):
    print(f"Prime numbers between {start} and {end}:")
    for num in range(start, end + 1):
        if num > 1:
            for i in range(2, int(num**0.5) + 1):
                if num % i == 0:
                    break
            else:
                print(num, end=' ')
    print()
print_primes_between(1, 50)
```

NO:3

```
def is_prime(n):
    if n < 2:
        return False
    for i in range(2, int(n**0.5) + 1):
        if n % i == 0:
            return False
    return True

def count_even_odd_prime(numbers):
    even = odd = prime = 0

    for num in numbers:
        if num % 2 == 0:
            even += 1
        else:
            odd += 1
        if is_prime(num):
            prime += 1

    print("Given List:", numbers)
    print("Even numbers:", even)
    print("Odd numbers:", odd)
    print("Prime numbers:", prime)

my_list = [2, 3, 4, 5, 6, 7, 8, 9, 10, 11]
count_even_odd_prime(my_list)
```