

Q.23) Write a Python program to print all prime factors of a given number.

```
def PrimeFactors(n):
```

```
    while n % 2 == 0:  
        print(2, end=" ")  
        n //= 2
```

```
    for i in range(3, int(n**0.5) + 1, 2):
```

```
        while n % i == 0:  
            print(i, end=" ")  
            n //= i
```

```
    if n > 2:  
        print(n)
```

```
Num = int(input("Enter a number to find its prime factors: "))
```

```
print(f"Prime factors of {Num} are: ", end="")  
PrimeFactors(Num)
```