

## LEAP YEAR

```
year = int(input("Enter a year: "))

if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
    print(f"{year} is a leap year.")
else:
    print(f"{year} is not a leap year.")
```

## COUNT VOWELS

```
word = input("Enter a word: ").lower()
vowels = 'aeiou'
count = 0

for char in word:
    if char in vowels:
        count += 1

print(f"The word contains {count} vowels.")
```

## NAMES STARTING WITH 'A'

```
names = [input("Enter a name: ") for _ in range(6)]
names_starting_with_a = [name for name in names if name.lower().startswith('a')]

print("Names starting with 'a':", names_starting_with_a)
```

## PROGRAM TO PROCESS EVEN AND ODD

```
numbers = [int(input("Enter an integer: ")) for _ in range(10)]

for num in numbers:
    if num % 2 == 0:
```

```
    print(f"{num} squared is {num ** 2}")
else:
    print(f"{num} cubed is {num ** 3}")
```

#### COST OF ORDERING ROSES

```
numbers = [int(input("Enter an integer: ")) for _ in range(10)]
```

```
for num in numbers:
    if num % 2 == 0:
        print(f"{num} squared is {num ** 2}")
    else:
        print(f"{num} cubed is {num ** 3}")
```