**1. Print numbers from 1 to 10.**

for i in range(1, 11):

print(i)

**Output:**

1

2

3

4

5

6

7

8

9

10

**2. Print even numbers from 1 to 20.**

for i in range(2, 21, 2):

print(i)

**Output:**

CopyEdit

2

4

6

8

10

12

14

16

18

20

**3. Print odd numbers from 1 to 20.**

for i in range(1, 21, 2):

print(i)

**Output:**

1

3

5

7

9

11

13

15

17

19

**4. Print numbers from 10 to 1 in reverse.**

for i in range(10, 0, -1):

print(i)

**Output:**

10

9

8

7

6

5

4

3

2

1

**5. Print multiples of 5 up to 50.**

for i in range(5, 51, 5):

print(i)

**Output:**

5

10

15

20

25

30

35

40

45

50

**6. Print the square of numbers from 1 to 5.**

for i in range(1, 6):

print(i\*\*2)

**Output:**

1

4

9

16

25

**7. Print numbers from 1 to n (n taken from user).**

n = int(input("Enter a number: "))

for i in range(1, n+1):

print(i)

**Sample Input:**

Enter a number: 5

**Output:**

1

2

3

4

5

**8. Print all numbers between 1 and 100 divisible by 7.**

for i in range(1, 101):

if i % 7 == 0:

print(i)

**Output:**

7

14

21

28

35

42

49

56

63

70

77

84

91

98

**9. Print numbers from 1 to 50. If number is even, print "Even", else print "Odd".**

for i in range(1, 51):

if i % 2 == 0:

print(i, "Even")

else:

print(i, "Odd")

**Sample Output:**

1 Odd

2 Even

3 Odd

...

50 Even

**10. Print first 10 natural numbers. For each number, print its square.**

for i in range(1, 11):

print("Number:", i, "Square:", i\*\*2)

**Output:**

mathematica

Number: 1 Square: 1

Number: 2 Square: 4

Number: 3 Square: 9

Number: 4 Square: 16

Number: 5 Square: 25

Number: 6 Square: 36

Number: 7 Square: 49

Number: 8 Square: 64

Number: 9 Square: 81

Number: 10 Square: 100

**11. Print each element of a given list.**

numbers = [3, 7, 1, 9]

for num in numbers:

print(num)

**Output:**

3

7

1

9

**12. Find and print only positive numbers from a list.**

nums = [-3, 5, -1, 7, -8, 2]

for num in nums:

if num > 0:

print(num)

**Output:**

5

7

2

**13. Print numbers greater than 50 from a list.**

nums = [25, 60, 45, 85, 30, 100]

for num in nums:

if num > 50:

print(num)

**Output:**

60

85

100

**14. Print all strings starting with letter ‘A’ from a list.**

names = ['Anu', 'Ravi', 'Amit', 'Sunil', 'Arun']

for name in names:

if name.startswith('A'):

print(name)

**Output:**

Anu

Amit

Arun

**15. Count how many even numbers are in a list.**

nums = [2, 5, 8, 11, 14, 17, 20]

count = 0

for num in nums:

if num % 2 == 0:

count += 1

print("Even count:", count)

**Output:**

Even count: 4

**16. Print all numbers in a list which are divisible by 3.**

nums = [3, 5, 9, 12, 14, 18, 20]

for num in nums:

if num % 3 == 0:

print(num)

**Output:**

3

9

12

18

**17. Find the maximum number in a given list using for loop.**

nums = [45, 23, 67, 89, 12]

max\_num = nums[0]

for num in nums:

if num > max\_num:

max\_num = num

print("Maximum:", max\_num)

**Output:**

makefile

Maximum: 89

**18. Find the minimum number in a list using for loop.**

python

CopyEdit

nums = [45, 23, 67, 89, 12]

min\_num = nums[0]

for num in nums:

if num < min\_num:

min\_num = num

print("Minimum:", min\_num)

**Output:**

Minimum: 12

**19. Find the sum of all numbers in a list using for loop.**

nums = [10, 20, 30, 40]

total = 0

for num in nums:

total += num

print("Sum:", total)

**Output:**

Sum: 100

**20. Find the average of all numbers in a list.**

nums = [10, 20, 30, 40]

total = 0

for num in nums:

total += num

avg = total / len(nums)

print("Average:", avg)

**Output:**

Average: 25.0

**21. Print all prime numbers between 1 and 50.**

for num in range(2, 51):

is\_prime = True

for i in range(2, num):

if num % i == 0:

is\_prime = False

break

if is\_prime:

print(num)

**Output:**

2

3

5

7

11

13

17

19

23

29

31

37

41

43

47

**22. Print all numbers between 1 and 100. If divisible by both 2 and 5, print the number.**

for i in range(1, 101):

if i % 2 == 0 and i % 5 == 0:

print(i)

**Output:**

10

20

30

40

50

60

70

80

90

100

**23. Print numbers between 1 and 30. If divisible by 3 print "Fizz", else print the number.**

for i in range(1, 31):

if i % 3 == 0:

print("Fizz")

else:

print(i)

**Sample Output:**

1

2

Fizz

4

5

Fizz

...

**24. Print "Hello" 5 times using for loop.**

for \_ in range(5):

print("Hello")

**Output:**

Hello

Hello

Hello

Hello

Hello

**25. Find and print the factorial of a given number using for loop.**

n = int(input("Enter a number: "))

fact = 1

for i in range(1, n + 1):

fact \*= i

print("Factorial:", fact)

**Sample Input:** 5  
**Output:**

Factorial: 120

**26. Count all vowels in a given string using for loop.**

text = input("Enter text: ")

count = 0

for char in text:

if char.lower() in 'aeiou':

count += 1

print("Vowel count:", count)

**Sample Input:** Hello World  
**Output:**

Vowel count: 3

**27. Reverse a given string using for loop.**

s = input("Enter string: ")

rev = ''

for char in s:

rev = char + rev

print("Reversed:", rev)

**Sample Input:** hello  
**Output:**

Reversed: olleh

**28. Find the sum of digits of a number using for loop.**

num = int(input("Enter number: "))

total = 0

for digit in str(num):

total += int(digit)

print("Sum of digits:", total)

**Input:** 1234  
**Output:**Sum of digits: 10

**29. Print a multiplication table of a given number using for loop.**

n = int(input("Enter number: "))

for i in range(1, 11):

print(n, 'x', i, '=', n \* i)

**Input:** 5  
**Output:**

5 x 1 = 5

5 x 2 = 10

...

5 x 10 = 50

**30. Check if a number is palindrome using for loop.**

num = input("Enter number: ")

rev = ''

for digit in num:

rev = digit + rev

if num == rev:

print("Palindrome")

else:

print("Not Palindrome")

**Input:** 121  
**Output:** Palindrome

**31. Take a number from user. Check if it is positive, negative, or zero.**

n = int(input("Enter number: "))

if n > 0:

print("Positive")

elif n < 0:

print("Negative")

else:

print("Zero")

**32. Take a year from user. Check if it is a leap year.**

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

if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):

print("Leap Year")

else:

print("Not a Leap Year")

**Sample Input:**

Enter year: 2024

**Output:**

Leap Year

**33. Take a number from user. Check if it is even or odd.**

n = int(input("Enter number: "))

if n % 2 == 0:

print("Even")

else:

print("Odd")

**Sample Input:**

Enter number: 15

**Output:**

Odd

**34. Take a number from user. Check if it is divisible by 5 and 11.**

n = int(input("Enter number: "))

if n % 5 == 0 and n % 11 == 0:

print("Divisible by both 5 and 11")

else:

print("Not divisible by both")

**Sample Input:**

Enter number: 55

**Output:**

Divisible by both 5 and 11

**35. Take a character from user. Check if it is a vowel or consonant.**

ch = input("Enter a letter: ").lower()

if ch in 'aeiou':

print("Vowel")

else:

print("Consonant")

**Sample Input:**

Enter a letter: E

**Output:**

Vowel

**36. Take a number from user. Check if it is a three-digit number.**

n = int(input("Enter number: "))

if 100 <= n <= 999:

print("Three-digit number")

else:

print("Not a three-digit number")

**Sample Input:**

Enter number: 123

**Output:**

Three-digit number

**37. Take a character from user. Check if it is uppercase or lowercase.**

ch = input("Enter a character: ")

if ch.isupper():

print("Uppercase")

elif ch.islower():

print("Lowercase")

else:

print("Not a letter")

**Sample Input:**

Enter a character: a

**Output:**

Lowercase

**38. Take age from user. Check if person is eligible to vote (age ≥ 18).**

age = int(input("Enter age: "))

if age >= 18:

print("Eligible to vote")

else:

print("Not eligible to vote")

**Sample Input:**

Enter age: 17

**Output:**

Not eligible to vote

**39. Take a number from user. Check if it is divisible by 2, 3, or both.**

n = int(input("Enter number: "))

if n % 2 == 0 and n % 3 == 0:

print("Divisible by both 2 and 3")

elif n % 2 == 0:

print("Divisible by 2")

elif n % 3 == 0:

print("Divisible by 3")

else:

print("Not divisible by 2 or 3")

**Sample Input:**

Enter number: 6

**Output:**

Divisible by both 2 and 3

**40. Take a number from user. Print whether it is even, odd, or zero.**

n = int(input("Enter number: "))

if n == 0:

print("Zero")

elif n % 2 == 0:

print("Even")

else:

print("Odd")

**Sample Input:**

Enter number: 0

**Output:**

Zero