**40 Easy Questions on For Loop, If, and Else**

For Loop with Numbers:

1. Print numbers from 1 to 10.

for i in range(1,11):

    print(i)

o/p:

1

2

3

4

5

6

7

8

9

10

2. Print even numbers from 1 to 20.

for i in range(1,21):

    if i%2==0:

        print(i)

o/p:

2

4

6

8

10

12

14

16

18

20

3. Print odd numbers from 1 to 20.

for i in range(1,21):

    if i%2!=0:

        print(i)

o/p:

1

3

5

7

9

11

13

15

17

19

4. Print numbers from 10 to 1 in reverse.

for

5. Print multiples of 5 up to 50.

for i in range(1,51):

     if(i%5==0):

         print(i)

o/p:

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\*\*i)

o/p:

1

4

27

256

3125

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

n=int(input(“Enter the number:”))

for i in range(1,n+1)

print(i)

o/p:

Enter the number:5

1

2

3

4

5

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

for i in range(1,100):

    if i%7==0:

        print(i)

o/p:

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")

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

for i in range(1,11):

    print("square of:",i,"is",i\*\*i)

o/p:

square of: 1 is 1

square of: 2 is 4

square of: 3 is 27

square of: 4 is 256

square of: 5 is 3125

square of: 6 is 46656

square of: 7 is 823543

square of: 8 is 16777216

square of: 9 is 387420489

square of: 10 is 10000000000

For Loop with Lists:

11. Print each element of a given list.

list=[1,2,3,4,5]

for i in list:

     print(i)

o/p:

1

2

3

4

5

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

list=[1,-2,3,4,5,-4,6]

for i in list:

    if i>0:

         print(i)

o/p:

1

3

4

5

6

13. Print numbers greater than 50 from a list.

list=[20,40,60,70,10,90,50]

for i in list:

    if i>50:

         print(i)

o/p:

60

70

90

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

list=[“Apple”,”Abhigna”,”Bhumika”,”CGI”,”Aeroplane”]

for word in list:

     If word.startswith(‘A’)

        print(word)

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

list =[ 10, 45 , 24 , 36 , 50 , 23, 98 ]

count=0

for i in list:

        if i% 2==0:

            count+=1

print(“Count of even numbers is:”,count)

o/p:Count of even numbers is: 5

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

list =[ 11 , 15, 21, 9 , 56, 4, 27]

for i in list:

    if i%3 ==0:

        print(i)

o/p:15

21

9

27

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

list =[ 10, 40, 35, 65 , 70 ,85]

max =list[0]

for i in list:

    if i> max:

          max= i

print(“The maximum no. is”,max )

o/p:The maximum no. is 85

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

list =[ 10, 40, 35, 65 , 70 ,85]

min =list[0]

for i in list:

    if  i <min:

          min= i

print(“The minimum no. is”,min )

o/p:The minimum no. is 10

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

list = [ 10 , 20 , 30 ,40 , 50]

sum=0

for i in list:

       sum+=i

print(“Sum of all numbers is:”,sum)

o/p:Sum of all numbers is: 150

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

list = [ 10 , 20 , 30 ,40 , 50]

sum=0

for i in list:

       sum+=i

avg= sum/ len(list)

print(“average of all numbers is:”,avg)

o/p: average of all numbers is: 30.0

For Loop with Ranges and Conditions:

21. Print all prime numbers between 1 and 50.

for num in range(2, 51):

    prime = True

    for i in range(2, num):

        if num % i == 0:

            prime = False

            break

    if not prime:

        print(num)

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)

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

for i in range(1, 31):

    if i % 3 == 0 :

        print("Fizz")

    else:

        print(i)

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

for i in range(5):

    print("Hello")

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

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

factorial=1

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

    factorial= factorial\*i

print("The factorial is",factorial)

o/p: Enter a number:5

The factorial is 120

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

char = input("Enter a string:")

count=0

for ch in char:

    if ch.lower() in 'aeiou':

        count=count+1

print("vowel count is",count)

o/p:

Enter a string:Abhigna

vowel count is 3

27. Reverse a given string using for loop.

char=input("enter a string:")

rev =" "

for ch in char:

    rev = ch+ rev

print("Reversed string is:",rev)

o/p:

enter a string:abhi

Reversed string is: ihba

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

num = input("Enter a number: ")

sum= 0

for i in num:

    if i.isdigit():

        sum += int(i)

print("Sum of digits is:", sum)

o/p: Enter a number: 55

Sum of digits is: 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(f"{n} x {i} = {n \* i}")

o/p:

Enter number: 5

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

5 x 9 = 45

5 x 10 = 50

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

num = input("Enter a number: ")

rev = ''

for ch in num:

    rev = ch + rev

if num == rev:

    print("It is palindrome")

else:

    print("It is not Palindrome")

o/p:

Enter a number: 5665

It is palindrome

If-Else with User Input:

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

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

if n>0:

    print("Positive number")

elif n<0:

    print("Negative number")

else:

    print("Zero")

o/p:

Enter a number:-9

Negative number

32. Take a year from user. Check if it is a 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")

o/p:enter a year:2003

2003,is not a 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")

o/p:Enter number: 6

      Even

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("no is divisible by 5 and 11")

else:

    print("it is not divisible by 5 and 11")

o/p:

Enter number: 120

it is not divisible by 5 and 11

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

ch = input("Enter a character: ")

if ch.lower() in 'aeiou':

    print("Vowel")

else:

    print("Consonant")

o/p:

1.Enter a character: j

Consonant

2.Enter a character: aab

Consonant

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

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

if 100 <= num<= 999:

    print("It is a three-digit number")

else:

    print("It is not a three-digit number")

o/p:

Enter number: 456

It is a three-digit number

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

ch = input("Enter character: ")

if ch.isupper():

    print("Uppercase")

else:

    print("Lowercase")

o/p:

1.Enter character: a

Lowercase

2.Enter character: A

Uppercase

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

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

if age >= 18:

    print("The person is eligible to vote")

else:

    print("The person is not eligible to vote")

o/p:

Enter the age: 34

The person is eligible to vote

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

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

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

    print("It is divisible by both 2 and 3")

elif n % 2 == 0:

    print("Only divisible by 2")

elif n % 3 == 0:

    print("Only divisible by 3")

else:

    print("It is not divisible by 2 or 3")

o/p:Enter the number: 88

Only divisible by 2

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

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

if n % 2 == 0:

    print("Even")

elif n %2!= 0:

    print("Odd")

else:

    print("Zero")

o/p:

Enter the number: 7

Odd