

While Loop:

1. Write a program using a while loop to print numbers from 1 to 10.
2. Create a while loop that prints the even numbers between 1 and 20.
3. Use a while loop to find the sum of the first 100 natural numbers.
4. Write a program using a while loop to reverse a given number.
5. Using a while loop, find the factorial of a given number.
6. Write a program that uses a while loop and prints all numbers divisible by 5 between 1 and 50.
7. Create a program using a while loop to find the largest digit in a number.
8. Use a while loop to find the sum of digits of a given number.
9. Write a while loop that continues until the user enters a negative number.
10. Using a while loop, calculate the power of a number (base^{exponent}).

While Loop with if-else:

11. Write a program that uses a while loop and an if-else to print "Odd" or "Even" for numbers between 1 and 10.
 12. Create a program using a while loop that asks the user for numbers and prints if they are positive, negative, or zero.
 13. Write a program using a while loop and if-else to count how many numbers between 1 and 100 are divisible by both 3 and 5.
 14. Use a while loop and if-else to print "Pass" if a student's score is 40 or more and "Fail" otherwise. Repeat until a negative score is entered.
 15. Create a while loop that takes a number input from the user and checks if it's prime using if-else conditions.
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For Loop:

1. Write a program using a for loop to print numbers from 1 to 10.
2. Create a for loop that prints the multiplication table of a number entered by the user.
3. Write a program using a for loop to find the sum of all even numbers between 1 and 100.
4. Use a for loop to print the Fibonacci series up to 10 terms.
5. Write a for loop that calculates the factorial of a number.
6. Write a program using a for loop to print all numbers divisible by 3 between 1 and 50.
7. Create a for loop to find the reverse of a number entered by the user.
8. Write a program using a for loop to calculate the sum of digits of a number.
9. Use a for loop to print the first 10 natural numbers.
10. Write a program that uses a for loop to print the powers of 2 from 1 to 16 (i.e., 2^1 to 2^{16}).

For Loop with if-else:

11. Write a for loop that prints whether numbers from 1 to 20 are odd or even using if-else conditions.
 12. Create a program that uses a for loop and if-else to print the grades of students based on marks (e.g., A, B, C) for a list of 5 students.
 13. Write a for loop and if-else to check and print if numbers between 1 and 100 are divisible by both 4 and 6.
 14. Use a for loop and if-else to print "Prime" for prime numbers and "Composite" for composite numbers between 1 and 50.
 15. Create a program that uses a for loop and if-else to check if a number entered by the user is a palindrome.
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Do-While Loop:

1. Write a program using a do-while loop to print numbers from 1 to 10.
2. Create a do-while loop that prints the square of numbers from 1 to 10.
3. Write a do-while loop that calculates the sum of the first 50 natural numbers.
4. Using a do-while loop, print all even numbers between 1 and 100.
5. Write a program using a do-while loop to reverse a given number.
6. Create a do-while loop to find the factorial of a number entered by the user.
7. Write a do-while loop that calculates the power of 2 (i.e., 2^n) up to $n=10$.
8. Use a do-while loop to print the first 10 numbers in the Fibonacci sequence.
9. Write a do-while loop that asks the user to enter numbers and stops when the user enters zero.
10. Create a program using a do-while loop to count how many numbers between 1 and 100 are divisible by 5.

Do-While Loop with if-else:

11. Write a do-while loop that takes user input and checks if the entered number is even or odd using if-else.
12. Create a do-while loop that asks for a number and prints if it's positive or negative using if-else conditions.
13. Write a program that uses a do-while loop and if-else to print "Pass" if the user enters a number greater than 50, and "Fail" otherwise.
14. Use a do-while loop and if-else to print whether a number entered by the user is prime or not.

15. Create a do-while loop and if-else to repeatedly ask the user for numbers and print "Even" if it's even, and "Odd" if it's odd until a negative number is entered.