LEVEL 1 PRACTICE PROBLEM

----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

// Number is divisible by 5

import java.util.Scanner;

public class DivisibleByFive {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = sc.nextInt();

boolean isDivisible = (number % 5 == 0);

System.out.println("Is the number " + number + " divisible by 5? " + isDivisible);

}

}

2. Check if First Number is Smallest

import java.util.Scanner;

public class SmallestOfThree {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter number1: ");

int num1 = sc.nextInt();

System.out.print("Enter number2: ");

int num2 = sc.nextInt();

System.out.print("Enter number3: ");

int num3 = sc.nextInt();

boolean isSmallest = num1 < num2 && num1 < num3;

System.out.println("Is the first number the smallest? " + isSmallest);

}

}

3. Check Largest Among Three

import java.util.Scanner;

public class LargestOfThree {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter number1: ");

int num1 = sc.nextInt();

System.out.print("Enter number2: ");

int num2 = sc.nextInt();

System.out.print("Enter number3: ");

int num3 = sc.nextInt();

System.out.println("Is the first number the largest? " + (num1 > num2 && num1 > num3));

System.out.println("Is the second number the largest? " + (num2 > num1 && num2 > num3));

System.out.println("Is the third number the largest? " + (num3 > num1 && num3 > num2));

}

}

4. Sum of Natural Numbers

import java.util.Scanner;

public class SumOfNaturalNumbers {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a number: ");

int n = sc.nextInt();

if (n >= 0) {

int sum = n \* (n + 1) / 2;

System.out.println("The sum of " + n + " natural numbers is " + sum);

} else {

System.out.println("The number " + n + " is not a natural number");

}

}

}

5. Check Voting Eligibility

mport java.util.Scanner;

public class VotingEligibility {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter age: ");

int age = sc.nextInt();

if (age >= 18) {

System.out.println("The person's age is " + age + " and can vote.");

} else {

System.out.println("The person's age is " + age + " and cannot vote.");

}

}

}

6. Positive, Negative, or Zero

import java.util.Scanner;

public class NumberSignCheck {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = sc.nextInt();

if (number > 0) {

System.out.println("The number is positive.");

} else if (number < 0) {

System.out.println("The number is negative.");

} else {

System.out.println("The number is zero.");

}

}

}

7. Spring Season Check

import java.util.Scanner;

public class SpringSeason {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter month (1-12): ");

int month = sc.nextInt();

System.out.print("Enter day: ");

int day = sc.nextInt();

boolean isSpring = (month == 3 && day >= 20) ||

(month == 4) ||

(month == 5) ||

(month == 6 && day <= 20);

if (isSpring) {

System.out.println("It's a Spring Season");

} else {

System.out.println("Not a Spring Season");

}

}

}

**8. Rocket Launch Countdown using While Loop**

import java.util.Scanner;

public class RocketCountdownWhile {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter countdown start number: ");

int counter = sc.nextInt();

while (counter >= 1) {

System.out.println(counter);

counter--;

}

System.out.println("Liftoff!");

}

}

**9. Rocket Launch Countdown using For Loop**

import java.util.Scanner;

public class RocketCountdownFor {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter countdown start number: ");

int counter = sc.nextInt();

for (int i = counter; i >= 1; i--) {

System.out.println(i);

}

System.out.println("Liftoff!");

}

}

**10. Sum Until User Enters 0**

import java.util.Scanner;

public class SumUntilZero {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

double total = 0.0;

while (true) {

System.out.print("Enter a number (0 to stop): ");

double num = sc.nextDouble();

if (num == 0) {

break;

}

total += num;

}

System.out.println("Total sum is: " + total);

}

}

**11. Sum Until 0 or Negative Number using Break**

import java.util.Scanner;

public class SumUntilZeroOrNegative {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

double total = 0.0;

while (true) {

System.out.print("Enter a number (0 or negative to stop): ");

double num = sc.nextDouble();

if (num <= 0) {

break;

}

total += num;

}

System.out.println("Total sum is: " + total);

}

}

**12. Sum of Natural Numbers using While Loop**

import java.util.Scanner;

public class NaturalSumWhile {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a natural number: ");

int n = sc.nextInt();

if (n >= 0) {

int sum = 0, i = 1;

while (i <= n) {

sum += i;

i++;

}

int formulaResult = n \* (n + 1) / 2;

System.out.println("Sum using loop: " + sum);

System.out.println("Sum using formula: " + formulaResult);

} else {

System.out.println("Not a natural number.");

}

}

}

**13. Sum of Natural Numbers using For Loop**

import java.util.Scanner;

public class NaturalSumFor {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a natural number: ");

int n = sc.nextInt();

if (n >= 0) {

int sum = 0;

for (int i = 1; i <= n; i++) {

sum += i;

}

int formulaResult = n \* (n + 1) / 2;

System.out.println("Sum using loop: " + sum);

System.out.println("Sum using formula: " + formulaResult);

} else {

System.out.println("Not a natural number.");

}

}

}

**14. Factorial using While Loop**

import java.util.Scanner;

public class FactorialWhile {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a positive integer: ");

int n = sc.nextInt();

if (n >= 0) {

long factorial = 1;

int i = 1;

while (i <= n) {

factorial \*= i;

i++;

}

System.out.println("Factorial of " + n + " is " + factorial);

} else {

System.out.println("Invalid input.");

}

}

}

**15. Factorial using For Loop**

import java.util.Scanner;

public class FactorialFor {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a positive integer: ");

int n = sc.nextInt();

if (n >= 0) {

long factorial = 1;

for (int i = 1; i <= n; i++) {

factorial \*= i;

}

System.out.println("Factorial of " + n + " is " + factorial);

} else {

System.out.println("Invalid input.");

}

}

}

**16. Print Odd and Even Numbers**

import java.util.Scanner;

public class OddEvenPrinter {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a number: ");

int n = sc.nextInt();

if (n >= 1) {

for (int i = 1; i <= n; i++) {

if (i % 2 == 0) {

System.out.println(i + " is even.");

} else {

System.out.println(i + " is odd.");

}

}

} else {

System.out.println("Enter a natural number.");

}

}

}

**17. Employee Bonus Calculation**

import java.util.Scanner;

public class EmployeeBonus {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter salary: ");

double salary = sc.nextDouble();

System.out.print("Enter years of service: ");

int years = sc.nextInt();

if (years > 5) {

double bonus = salary \* 0.05;

System.out.println("Bonus amount is: " + bonus);

} else {

System.out.println("No bonus applicable.");

}

}

}

**18. Multiplication Table from 6 to 9**

import java.util.Scanner;

public class MultiplicationTable {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter number for table: ");

int number = sc.nextInt();

for (int i = 6; i <= 9; i++) {

System.out.println(number + " \* " + i + " = " + (number \* i));

}

}

}

Level 1 Practice Programs

1. Write a program to check if a number is divisible by 5

I/P => number

O/P => Is the number \_\_\_ divisible by 5? \_\_\_

1. Write a program to check if the first is the smallest of the 3 numbers.

I/P => number1, number2, number3

O/P => Is the first number the smallest? \_\_\_\_

1. Write a program to check if the first, second, or third number is the largest of the three.

I/P => number1, number2, number3

O/P =>

Is the first number the largest? \_\_\_\_

Is the second number the largest? \_\_\_

Is the third number the largest? \_\_\_

1. Write a program to check for the natural number and write the sum of n natural numbers

**Hint =>**

1. A Natural Number is a positive integer (1,2,3, etc) sometimes with the inclusion of 0
2. A sum of n natural numbers is n \* (n+1) / 2

I/P => number

O/P => If the number is a positive integer then the output is

The sum of \_\_\_ natural numbers is \_\_\_

Otherwise

The number \_\_\_ is not a natural number

1. Write a program to check whether a person can vote, depending on whether his/her age is greater than or equal to 18.

**Hint =>**

1. Get integer input from the user and store it in the age variable.
2. If the person is 18 or older, print "The person can vote." Otherwise, print "The person cannot vote."

I/P => age

O/P => If the person's age is greater or equal to 18 then the output is

The person's age is \_\_\_ and can vote.

Otherwise

The person's age is \_\_\_ and cannot vote.

1. Write a program to check whether a number is positive, negative, or zero.

**Hint =>**

1. Get integer input from the user and store it in the number variable.
2. If the number is positive, print positive.
3. If the number is negative, print negative.
4. If the number is zero, print zero.
5. Write a program SpringSeason that takes two int values month and day from the command line and prints “Its a Spring Season” otherwise prints “Not a Spring Season”.

**Hint =>**

1. Spring Season is from March 20 to June 20
2. Write a program to count down the number from the user input value to 1 using a ***while*** loop for a rocket launch

**Hint =>**

1. Create a variable counter to take user inputted value for the countdown.
2. Use the ***while*** loop to check if the counter is 1
3. Inside a ***while*** loop, print the value of the counter and decrement the counter.
4. Rewrite program 8 to do the countdown using the ***for-***loop
5. Write a program to find the sum of numbers until the user enters 0

**Hint =>**

1. Create a variable total of type double initialize to 0.0. Also, create a variable to store the double value the user enters
2. Use the ***while*** loop to check if the user entered is 0
3. If the user entered value is not 0 then inside the while block add user entered value to the total and ask the user to input again
4. The loop will continue till the user enters zero and outside the loop display the total value
5. Rewrite the program 10 to find the sum until the user enters 0 or a negative number using ***while*** loop and break statement

**Hint =>**

1. Use infinite while loop as in while (true)
2. Take the user entry and check if the user entered 0 or a negative number to break the loop using break;
3. Write a program to find the sum of n natural numbers using ***while*** loop compare the result with the formulae n\*(n+1)/2 and show the result from both computations was correct.

**Hint =>**

1. Take the user input number and check whether it's a Natural number
2. If it's a natural number Compute using formulae as well as compute using ***while*** loop
3. Compare the two results and print the result
4. Rewrite the program number 12 with the ***for*** loop instead of a while loop to find the sum of n Natural Numbers.

**Hint =>**

1. Take the user input number and check whether it's a Natural number
2. If it's a natural number Compute using formulae as well as compute using ***for*** loop
3. Compare the two results and print the result
4. Write a Program to find the factorial of an integer entered by the user.

**Hint =>**

1. For example, the factorial of 4 is 1 \* 2 \* 3 \* 4 which is 24.
2. Take an integer input from the user and assign it to the variable. Check the user has entered a positive integer.
3. Using a ***while*** loop, compute the factorial.
4. Print the factorial at the end.
5. Rewrite program 14 using for loop

**Hint =>**

1. Take the integer input, check for natural number and determine the factorial using for loop and finally print the result.
2. Create a program to print odd and even numbers between 1 to the number entered by the user.

**Hint =>**

1. Get an integer input from the user, assign to a variable number and check for Natural Number
2. Using a for loop, iterate from 1 to the number
3. In each iteration of the loop, print the number is odd or even number
4. Create a program to find the bonus of employees based on their years of service.

**Hint =>**

1. Zara decided to give a bonus of 5% to employees whose year of service is more than 5 years.
2. Take salary and year of service in the year as input.
3. Print the bonus amount.
4. Create a program to find the multiplication table of a number entered by the user from 6 to 9.

**Hint =>**

1. Take integer input and store it in the variable number
2. Using a for loop, find the multiplication table of number from 6 to 9 and print it in the format number \* i = \_\_\_

LEVEL 2 PRACTICE PROBLEM

**1. Odd and Even Numbers from 1 to N**

import java.util.Scanner;

public class OddEvenNumbers {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a natural number: ");

int number = input.nextInt();

if (number <= 0) {

System.out.println("Please enter a natural number.");

} else {

for (int i = 1; i <= number; i++) {

if (i % 2 == 0)

System.out.println(i + " is Even");

else

System.out.println(i + " is Odd");

}

}

}

}

**2. Employee Bonus Calculator**

import java.util.Scanner;

public class EmployeeBonus {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter employee's salary: ");

double salary = input.nextDouble();

System.out.print("Enter years of service: ");

int years = input.nextInt();

if (years > 5) {

double bonus = salary \* 0.05;

System.out.println("Bonus amount is: INR " + bonus);

} else {

System.out.println("No bonus for less than 5 years of service.");

}

}

}

**3. Multiplication Table from 6 to 9**

import java.util.Scanner;

public class MultiplicationTable {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = input.nextInt();

for (int i = 6; i <= 9; i++) {

System.out.println(number + " \* " + i + " = " + (number \* i));

}

}

}

**4. FizzBuzz with For Loop**

import java.util.Scanner;

public class FizzBuzzForLoop {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a positive integer: ");

int number = input.nextInt();

if (number <= 0) {

System.out.println("Invalid input. Enter a positive number.");

} else {

for (int i = 1; i <= number; i++) {

if (i % 3 == 0 && i % 5 == 0)

System.out.println("FizzBuzz");

else if (i % 3 == 0)

System.out.println("Fizz");

else if (i % 5 == 0)

System.out.println("Buzz");

else

System.out.println(i);

}

}

}

}

**5. FizzBuzz with While Loop**

import java.util.Scanner;

public class FizzBuzzWhileLoop {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a positive integer: ");

int number = input.nextInt();

if (number <= 0) {

System.out.println("Invalid input. Enter a positive number.");

} else {

int i = 1;

while (i <= number) {

if (i % 3 == 0 && i % 5 == 0)

System.out.println("FizzBuzz");

else if (i % 3 == 0)

System.out.println("Fizz");

else if (i % 5 == 0)

System.out.println("Buzz");

else

System.out.println(i);

i++;

}

}

}

}

**1. Youngest and Tallest Among Amar, Akbar, and Anthony**

import java.util.Scanner;

public class YoungestAndTallest {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter age of Amar: ");

int ageAmar = input.nextInt();

System.out.print("Enter height of Amar: ");

int heightAmar = input.nextInt();

System.out.print("Enter age of Akbar: ");

int ageAkbar = input.nextInt();

System.out.print("Enter height of Akbar: ");

int heightAkbar = input.nextInt();

System.out.print("Enter age of Anthony: ");

int ageAnthony = input.nextInt();

System.out.print("Enter height of Anthony: ");

int heightAnthony = input.nextInt();

// Finding youngest

if (ageAmar <= ageAkbar && ageAmar <= ageAnthony) {

System.out.println("Amar is the youngest.");

} else if (ageAkbar <= ageAmar && ageAkbar <= ageAnthony) {

System.out.println("Akbar is the youngest.");

} else {

System.out.println("Anthony is the youngest.");

}

// Finding tallest

if (heightAmar >= heightAkbar && heightAmar >= heightAnthony) {

System.out.println("Amar is the tallest.");

} else if (heightAkbar >= heightAmar && heightAkbar >= heightAnthony) {

System.out.println("Akbar is the tallest.");

} else {

System.out.println("Anthony is the tallest.");

}

}

}

**2. Factors of a Number (For Loop)**

import java.util.Scanner;

public class FactorsUsingFor {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a positive number: ");

int number = input.nextInt();

if (number > 0) {

System.out.println("Factors of " + number + " are:");

for (int i = 1; i < number; i++) {

if (number % i == 0) {

System.out.println(i);

}

}

} else {

System.out.println("Invalid input. Enter a positive number.");

}

}

}

**3. Factors of a Number (While Loop)**

import java.util.Scanner;

public class FactorsUsingWhile {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a positive number: ");

int number = input.nextInt();

if (number > 0) {

int i = 1;

System.out.println("Factors of " + number + " are:");

while (i < number) {

if (number % i == 0) {

System.out.println(i);

}

i++;

}

} else {

System.out.println("Invalid input. Enter a positive number.");

}

}

}

**✅ 4. Greatest Factor Except Itself (For Loop)**

import java.util.Scanner;

public class GreatestFactorFor {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = input.nextInt();

int greatestFactor = 1;

for (int i = number - 1; i >= 1; i--) {

if (number % i == 0) {

greatestFactor = i;

break;

}

}

System.out.println("The greatest factor of " + number + " (besides itself) is: " + greatestFactor);

}

}

**✅ 5. Greatest Factor Except Itself (While Loop)**

import java.util.Scanner;

public class GreatestFactorWhile {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a number: ");

int number = input.nextInt();

int greatestFactor = 1;

int counter = number - 1;

while (counter >= 1) {

if (number % counter == 0) {

greatestFactor = counter;

break;

}

counter--;

}

System.out.println("The greatest factor of " + number + " (besides itself) is: " + greatestFactor);

}

}

**6. Multiples of a Number Below 100 (For Loop)**

import java.util.Scanner;

public class MultiplesBelow100For {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a positive number below 100: ");

int number = input.nextInt();

if (number > 0 && number < 100) {

System.out.println("Multiples of " + number + " below 100:");

for (int i = 1; i < 100; i++) {

if (i % number == 0) {

System.out.println(i);

}

}

} else {

System.out.println("Invalid input. Enter a number between 1 and 99.");

}

}

}

**7. Multiples of a Number Below 100 (While Loop)**

import java.util.Scanner;

public class MultiplesBelow100While {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a positive number below 100: ");

int number = input.nextInt();

if (number > 0 && number < 100) {

int counter = 1;

System.out.println("Multiples of " + number + " below 100:");

while (counter < 100) {

if (counter % number == 0) {

System.out.println(counter);

}

counter++;

}

} else {

System.out.println("Invalid input. Enter a number between 1 and 99.");

}

}

}

**8. Power of a Number (For Loop)**

import java.util.Scanner;

public class PowerUsingFor {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter base number: ");

int base = input.nextInt();

System.out.print("Enter exponent: ");

int power = input.nextInt();

if (power < 0) {

System.out.println("Please enter a non-negative exponent.");

} else {

int result = 1;

for (int i = 1; i <= power; i++) {

result \*= base;

}

System.out.println(base + " raised to the power " + power + " is: " + result);

}

}

}

**9. Power of a Number (While Loop)**

import java.util.Scanner;

public class PowerUsingWhile {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter base number: ");

int base = input.nextInt();

System.out.print("Enter exponent: ");

int power = input.nextInt();

if (power < 0) {

System.out.println("Please enter a non-negative exponent.");

} else {

int result = 1;

int counter = 0;

while (counter < power) {

result \*= base;

counter++;

}

System.out.println(base + " raised to the power " + power + " is: " + result);

}

}

}

Level 2 Practice Programs

1. Create a program to print odd and even numbers between 1 to the number entered by the user.

**Hint =>**

1. Get an integer input from the user, assign to a variable number and check for Natural Number
2. Using a for loop, iterate from 1 to the number
3. In each iteration of the loop, print the number is odd or even number
4. Create a program to find the bonuses of employees based on their years of service.

**Hint =>**

1. Zara decided to give a bonus of 5% to employees whose year of service is more than 5 years.
2. Take salary and year of service in the year as input.
3. Print the bonus amount.
4. Create a program to find the multiplication table of a number entered by the user from 6 to 9.

**Hint =>**

1. Take integer input and store it in the variable number
2. Using a for loop, find the multiplication table of number from 6 to 9 and print it in the format number \* i = \_\_\_
3. Write a program FizzBuzz, take a number as user input, and check for a positive integer. If positive integer, loop and print the number, but for multiples of 3 print "Fizz" instead of the number, for multiples of 5 print "Buzz", and for multiples of both print "FizzBuzz".

**Hint =>**

1. Take the user input number, check for a positive integer, and use ***for*** loop to display
2. Rewrite the program 4 FizzBuzz using the while loop
3. Create a program to find the youngest friends among 3 Amar, Akbar, and Anthony based on their ages and the tallest among the friends based on their heights

**Hint =>**

1. Take user input for the age and height of the 3 friends and store it in a variable
2. Find the smallest of the 3 ages to find the youngest friend and display it
3. Find the largest of the 3 heights to find the tallest friend and display it
4. Create a program to find the factors of a number taken as user input.

**Hint =>**

1. Get the input value for a variable named number and check if it is a positive integer.
2. Run a ***for*** loop from i = 1 to i < number. In each iteration of the loop, check if the number is perfectly divisible by i. If true, print the value of i.
3. Rewrite the above program 7 to find the factors of a number using the ***while*** loop

**Hint =>**

1. Get the input value for a variable named number and check if it is a positive integer.
2. Create a counter variable and run the \_\*\*while\*\*\_ loop till the counter is less than the user input number. In each iteration of the loop, check if the number is perfectly divisible by the counter. If true, print the value of the counter.
3. Create a program to print the greatest factor of a number beside itself using a loop.

**Hint =>**

1. Get an integer input and assign it to the number variable. As well as define a greatestFactor variable and assign it to 1
2. Create a ***for*** loop that runs from last but one till 1 as in i = number - 1 to i = 1.
3. Inside the loop, check if the number is perfectly divisible by i then assign i to greatestFactor variable and break the loop.
4. Display the greatestFactor variable outside the loop
5. Rewrite the above program to print the greatest factor of a number beside itself using a ***while*** loop.

**Hint =>**

1. Get an integer input and assign it to the number variable. As well as define a greatestFactor variable and assign it to 1
2. Create a variable counter and assign ***counter = number - 1;*** Use the ***while*** loop till the counter is equal to 1.
3. Inside the loop, check if the number is perfectly divisible by the counter then assign the counter to greatestFactor variable and break the loop.
4. Display the greatestFactor variable outside the loop
5. Create a program to find all the multiples of a number taken as user input below 100.

**Hint =>**

1. Get the input value for a variable named number. Check the number is a positive integer and less than 100.
2. Run a ***for*** loop backward: from i = 100 to i = 1.
3. Inside the loop, check if i perfectly divide the number. If true, print the number and ***continue*** the loop.
4. Create a program to find the power of a number.

**Hint =>**

1. Get integer input for two variables - number and power and check for positive integer
2. Create a result variable with an initial value of 1.
3. Run a for loop from i = 1 to i <= power. In each iteration of the loop, multiply the result by the number and assign the value to the result. Finally, print the result
4. Rewrite the program to find all the multiples of a number below 100 using ***while*** loop.

**Hint =>**

1. Get the input value for a variable named number. Check the number is a positive integer and less than 100.
2. Create a counter variable and assign ***counter = number - 1;*** Use a ***while*** till the counter is > 1
3. Inside the loop, check if the counter perfectly divides the number. If true, print the number and ***continue*** the loop.
4. Rewrite the above program to find the power of a number using a ***while*** loop.

**Hint =>**

1. Get integer input for two variables named number and power.
2. Create a result variable with an initial value of 1.
3. Create a temp variable counter and initialize to zero. Use the ***while*** loop till \_\*\*counter == power\*\*\_.
4. In each iteration of the loop, multiply the result by the number and assign the value to the result. Also, increment the counter.
5. Finally, print the result

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