1. For loop that prints even numbers from 1 to 20:

public class Main {

public static void main(String[] args) {

for (int i = 1; i <= 20; i++) {

if (i % 2 == 0) {

System.out.println(i);

}

}

}

}

1. While loop that prompts the user for their flight choice until a valid number is entered

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

int flightChoice;

do {

System.out.print("Enter a valid flight choice (1-5): ");

flightChoice = scanner.nextInt();

} while (flightChoice < 1 || flightChoice > 5);

System.out.println("You selected flight choice " + flightChoice);

}

}

1. Java program that prints the first 10 Fibonacci numbers using a for loop:

public class Main {

public static void main(String[] args) {

int a = 0, b = 1;

System.out.println("First 10 Fibonacci numbers:");

for (int i = 1; i <= 10; i++) {

System.out.println(a);

int next = a + b;

a = b;

b = next;

}

}

}

1. Program to calculate the sum of integers from 1 to 100 using a while loop:

public class Main {

public static void main(String[] args) {

int sum = 0;

int i = 1;

while (i <= 100) {

sum += i;

i++;

}

System.out.println("Sum of integers from 1 to 100: " + sum);

}

}

1. Program to calculate the sum of the first 5 natural numbers:

public class Main {

public static void main(String[] args) {

int sum = 0;

for (int i = 1; i <= 5; i++) {

sum += i;

}

System.out.println("Sum of the first 5 natural numbers: " + sum);

}

}