Programs:-

Task 1: Data Types/Variables

Write a program that declares two integer variables, swaps their values without using a third variable, and prints the result.

package com.basicJava;

public class Swapping {

public static void main(String[] args) {

int a = 10;

int b = 5;

int c = 0;

с=а;

a=b;

b = c;

System.out.print(a)

System.out.print(b);

}

}

OUTPUT : a = 5

B = 10

Task 2: Operators

Create a program that simulates a simple calculator using command-line arguments to perform and print the result of addition, subtraction, multiplication, and division..

package con.basicJava;

class Calculator {

public static vold main(String[] args) {

System.out .println (args[0]):

System.out .println(args[1]);

int a = Integer.valueof (args[0]);

int b = Integer.valueof (args[1]);

int sun = a+b;

int sub = a-b;

int mul = a\* b;

Systen.out printin(sum);

System.out.print（sub）；

Systen.out .printin(mul):

Task 3: Control Flow

Write a Java program that reads an integer and prints whether it is a prime number using a for loop and if statements.

package com.basicava;

2

Inport Java.utll.Scanner;

public Class PrimeNtumbers (

Package Array java

Class Array{

public static void main(String[] args) {

Scanner sc = new Scanner (Systen.in);

int count = 0;

Systen.out.println(enter a number");

int nun = sc.nextint();

if (num<=1) {

System.out.println("the nurber is not prime number\*);

return;

}

for(int 1 =1; 1< =nun/2;1++){

If(num % i == 0){

count++

}

}

if (counts>1)

System.out .println("the number is not prime number");

else

System.out-printin("the number is prine number\*);  
}

}

OUTPUT :-

Enter a number

5

The number is primenumber

6

The number is not prime number

Task 4: Arrays - Declaration, Initialization, and Usage

Create a program that declares an array of integers, initializes it with consecutive numbers, and prints the array in reverse order.

public class ReverseArray {

public static void main(String[] args) {

int[] num = new int[5];

num[0] = 1;

num[1] = 2;

num[2] = 3;

num[3] = 4;

num[4] = 5;

for (int i = num.length - 1; i >= 0; i--) {

System.out.print(num[i]);

}

}

}

OUTPUT :-

54321