Week 1

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1.Write a program to perform basic arithmetic operations (addition, subtraction, multiplication, division).

Program:

```
class arithmaticOperations
{
	public static void main(String[] args)
	{
		int a=3;
		int b=7;
		System.out.println("Addition = "+ (a+b));
		System.out.println("Subtraction = "+(a-b));
		System.out.println("Multiplication "+(a*b));
		System.out.println("Division = "+(a/b));
	}
}
```

Output:

```
Addition = 10
Subtraction = -4
Multiplication 21
Division = 0
```

2.Create a program that takes user input and checks if the number is even or odd.

Program:

```
import java.util.Scanner;
class evenOdd
{
	public static void main(String[] args)
	{
		Scanner b=new Scanner(System.in);
		System.out.println("Number : ");
```

```
            int a=b.nextInt();
                if(a%2 == 0)
                {
                        System.out.println("The given number is Even");
                }
                else
                {
                        System.out.println("The number is odd");
                }
        }
}
```

Output:

```
Number :
17
17 is Odd Number
```

3.Implement a simple calculator using switch-case statements.

Program:

```
import java.util.Scanner;
class calculator
{
        public static void main(String[] args)
        {
                Scanner sc=new Scanner(System.in);
                System.out.println("Enter first number :");
                int a= sc.nextInt();
                System.out.println("Enter second number :");
                int b= sc.nextInt();
                System.out.println("Enter an operator + , - , * , / : ");
                char c= sc.next().charAt(0);
                sc.close();
                double output;
                switch(c)
                {
                        case'+':
                                output =  a + b;
                                break;
                        case'-':
                                output = a - b;
                                break;
                        case'*':
```

```
                        output = a * b;
                        break;
                case'/':
                        output = a / b;
                        break;
                default:
                        System.out.println("Invalid ");
                        return;
            }
            System.out.println(a+" "+c+" "+b+" = "+output);
        }
}
```

Output:

```
Enter first number :
14
Enter second number :
12
Enter an operator + , - , * , / :
*
14 * 12 = 168.0
```