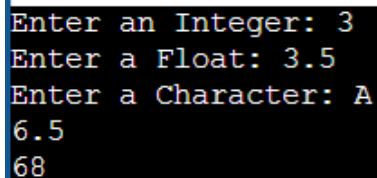**DAY-1**

**PROGRAM-1**

```java
import java.util.*;

public class Main
{
public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    System.out.print("Enter an Integer: ");
    int a=sc.nextInt();
     System.out.print("Enter a Float: ");
    float b=sc.nextFloat();
     System.out.print("Enter a Character: ");
    char c=sc.next().charAt(0);

    //Convert the integer to a float and add it to the float input.
    System.out.println(b+((float)a));

    //Convert the character to its ASCII value and add it to the integer.
       System.out.println(a+((int)c));
}
}
```

**OUTPUT**

```
Enter an Integer: 3
Enter a Float: 3.5
Enter a Character: A
6.5
68
```

**PROGRAM-2**

```java
import java.util.*;

public class Main
{
public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
     System.out.print("Enter an Integer: ");
     int a=sc.nextInt();
     System.out.print("Enter an Integer: ");
     int b=sc.nextInt();
     System.out.print("Enter a Float: ");
     double c=sc.nextDouble();

    //Addition,Subtarction,Multiplication,Division
```

```java
        System.out.println("Addition: "+(a+b));
        System.out.println("Subtraction: "+(a-b));
        System.out.println("Multiplication: "+(a*b));
        System.out.println("Division: "+(a/b));


    //Multiply the result of the addition with the double value.
        System.out.println(((double)a+b)*c);
    }
}
```
**OUTPUT**

```
Enter an Integer: 100
Enter an Integer: 10
Enter a Double: 5.5
Addition: 110
Subtraction: 90
Multiplication: 1000
Division: 10
605.0
```

**PROGRAM-3**
```java
import java.util.*;

public class Main
{
public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
     System.out.print("Enter an Integer: ");
     int a=sc.nextInt();
     System.out.print("Enter an Integer: ");
     int b=sc.nextInt();

    //AND
    System.out.println("AND: "+(a&b));

    //OR
    System.out.println("OR: "+(a|b));

    //X0R
    System.out.println("XOR: "+(a^b));

    //Left Shift (both numbers by 2 bits)
        System.out.println("Left Shift of a by 2 bits: "+ (a<<2));
        System.out.println("Left Shift of b by 2 bits: "+ (b<<2));

        //Right Shift (both numbers by 2 bits)
        System.out.println("Right Shift of a by 2 bits: "+ (a>>2));
        System.out.println("Right Shift of b by 2 bits: "+ (b>>2));
```

```
}
}
```

**OUTPUT**

```
Enter an Integer: 10
Enter an Integer: 5
AND: 0
OR: 15
XOR: 15
Left Shift of a by 2 bits: 40
Left Shift of b by 2 bits: 20
Right Shift of a by 2 bits: 2
Right Shift of b by 2 bits: 1


...Program finished with exit code 0
Press ENTER to exit console.
```