**JAVA PROGRAM**

**DAY 1:ASSIGNMENT**

**1. Type Conversion Challenge**

**Problem:**

Write a Java program that accepts an integer, a float, and a character from the user.

**Perform the following operations:**

* **** Convert the integer to a float and add it to the float input.
*  Convert the character to its ASCII value and add it to the integer.
*  Display the results with proper data type usage.

Soln:

**package** Practice;

**import** java.util.Scanner;

**public** **class** Practice {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int** a=sc.nextInt();

**float** b=sc.nextFloat();

**char** c=sc.next().charAt(0);

**float** d=(**float**)a;

**int** e=(**int**)c;

System.***out***.println(d+b);

System.***out***.println(a+e);

}

}

**Output:**

35

20.5

k

55.5

142

**2. Arithmetic Expression Evaluator**

**Problem:**

Write a program that takes three numbers from the user: two integers and one double.

Perform and display the results of the following:

* Addition, Subtraction, Multiplication, and Division between the integers.
* Multiply the result of the addition with the double value.
* Ensure proper type casting is used wherever necessary.

Soln:

**package** Practice;

**import** java.util.Scanner;

**public** **class** Practice {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int** a=sc.nextInt();

**int** b=sc.nextInt();

**float** c=sc.nextFloat();

System.***out***.println(a+b);

System.***out***.println(b-a);

System.***out***.println(a\*b);

System.***out***.println(a/b);

System.***out***.println(c\*(a+b));

**Output:**

20

30

9.54

50

10

600

0

477.0

**3. Bitwise Operator Experiment**

**Problem:**

Create a program that reads two integer numbers from the user. Perform the following

bitwise operations and print the results:

 AND

 OR

 XOR

 Left Shift (both numbers by 2 bits)

 Right Shift (both numbers by 2 bits)

Soln:

**package** Practice;

**import** java.util.Scanner;

**public** **class** Practice {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**int** a=sc.nextInt();

**int** b=sc.nextInt();

System.***out***.println(a & b);

System.***out***.println(a | b);

System.***out***.println(a ^ b);

System.***out***.println(a << b);

System.***out***.println(a >> b);

**Output:**

17

13

1

29

28

139264

0