



CSE 215: Programming Language II Lab

Lab – 2

Data types, Arithmetic Expressions, Statements, Operators

Data types(Primitive):

```
int range = 42; //4 byte
    System.out.println(range)
char letter = 'A'; //2 bytes
    System.out.println(letter);
float number = 42.3f; //4 bytes
    System.out.println(number);
double number = 42.3; //8 bytes
    System.out.println(number);
long range = 423322L; //8 bytes
    System.out.println(range)
short temperature; //2 bytes
    temperature = 200;
    System.out.println(temperature);
byte range; //1 byte
    range = 124;
    System.out.println(range);
boolean flag = true; //1 bit
    System.out.println(flag);
//Non Primitive:
String name="North South university"; // Max:2,147,483,647 character
```

Arithmetic Operators:

```
// declare variables
int a = 12, b = 5;
// addition operator
System.out.println("a + b = " + (a + b));
// subtraction operator
System.out.println("a - b = " + (a - b));
// multiplication operator
System.out.println("a * b = " + (a * b));
// division operator
System.out.println("a / b = " + (a / b));
// modulus operator
System.out.println("a % b = " + (a % b));
```

User Input:

```
// create an object of Scanner
Scanner input = new Scanner(System.in);
// Getting int input
int number = input.nextInt();
// Getting float input
float myFloat = input.nextFloat();
// Getting double input
double myDouble = input.nextDouble();
// Getting String input
String myString = input.next();//word input
String myString2 = input.nextLine(); //Line input
// Getting Long input
long myLong = input.nextLong();
// Getting Short input
short myShort = input.nextShort();
// Getting byte input
byte myByte = input.nextByte();
// Getting boolean input
boolean myBoolean = input.nextBoolean();
```

Tasks:

1. Declare variables using your full name,id,section,cgpa.Then print in the console screen.
2. Take a student full name,id,section,course code,cgpa from user input.Then print in the console screen.
3. Declare all types of data type using user input.Then print in the console screen.
4. Take three students full name,id,section,cgpa,course code from the user input.Print all information,Also calculate the sum and average of cgpa.Print results.