Assignment01 – Inputs in Java

Code:

```java
import java.util.Scanner;

public class InptHW {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

//String

System.out.print("Enter your name: ");

String name = scanner.nextLine();

//Character

System.out.print("Enter your gender (M/F): ");

char gender = scanner.next().charAt(0);

scanner.nextLine();

//Integer

System.out.print("Enter your age: ");

int age = scanner.nextInt();

scanner.nextLine();

//Long

System.out.print("Enter your ID number: ");

long id = scanner.nextLong();

scanner.nextLine();

//Double

System.out.print("Enter your height (in meters): ");

double height = scanner.nextDouble();

scanner.nextLine();
```

```java
//Float
System.out.print("Enter your weight (in kilograms): ");
float weight = scanner.nextFloat();
scanner.nextLine();
//Boolean
System.out.print("Are you a student? (true/false): ");
boolean isStudent = scanner.nextBoolean();
scanner.nextLine();
//Output
System.out.println("\nStudent Details");
System.out.println("\nName: " + name);
System.out.println("Gender: " + gender);
System.out.println("Age: " + age);
System.out.println("ID: " + id);
System.out.println("Height: " + height + " meters");
System.out.println("Weight: " + weight + " kilograms");
System.out.println("Student: " + isStudent);
scanner.close();
    }
}
```

Output:

```
utkarshkashinathtakmoge@Utkarshs-MacBook-Air Day02 % cd
rogramming/Day02/" && javac InptHW.java && java InptHW
Enter your name: Utkarsh Kashinath Takmoge
Enter your gender (M/F): M
Enter your age: 21
Enter your ID number: 1234567890
Enter your height (in meters): 169.369
Enter your weight (in kilograms): 72.3
Are you a student? (true/false): true

Student Details

Name: Utkarsh Kashinath Takmoge
Gender: M
Age: 21
ID: 1234567890
Height: 169.369 meters
Weight: 72.3 kilograms
Student: true
```

Assignment02 – Arithmetic Operators in Java

Code:

```java
public class ArithOprHW {

public static void main(String[] args) {

int a = 27;

int b = 4;

// Addition

int sum = a + b;

System.out.println("Sum: " + sum);

// Subtraction

int difference = a - b;

System.out.println("Difference: " + difference);

// Multiplication

int product = a * b;

System.out.println("Product: " + product);

// Division

int quotient = a / b;

System.out.println("Quotient: " + quotient);

// Modulus (Remainder)

int remainder = a % b;

System.out.println("Remainder: " + remainder);

}

}
```

Output:

```
utkarshkashinathtakmoge@Utkarshs-Mac
rogramming/Day02/" && javac ArithOpr
Sum: 31
Difference: 23
Product: 108
Quotient: 6
Remainder: 3
utkarshkashinathtakmoge@Utkarshs-Mac
```