



Course Code	OCAJP8
Section	TOPIC_2
Student Name	Dominic Sekaole
Student Signature	E S
Date	14/01/2020

## 1. Program Objective and Summary

- Declare and initialize variables (including casting of primitive data types)
- Differentiate between object reference variables and primitive variables
- Know how to read or write to object fields
- Explain an Object's Lifecycle (creation, "dereference by reassignment" and garbage collection)
- Develop code that uses wrapper classes such as Boolean, Double, and Integer.

2. Tools (Clearly state the IDE, Databases, languages used)

Intellij IDEA

3. Code





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

/*

multiple variables of the same type declared on the same line below.

/*

byte MONTHS_IN_YEAR = 12, PERCENTAGE = 100;

String annualInterestRate = "6.50";

/*

line below makes a new object and stores the variable input.

/*

Scanner scanner = new Scanner(System.in);

/*

System.out.println("Welcome this in a loan payment calculator\n");

System.out.print("Please enter your name: ");

String name = scanner.nextLine();

System.out.print(mane + " Please enter the loan amount you require: ");

int loanAmount = scanner.nextInt();

double monthlyInterest = Double.parseDouble(annualInterestRate) / PERCENTAGE / MONTHS_IN_YEAR;

/*

Above line and Double.parseDouble() is casting of variable methods.

*/

System.out.print("Please enter period of years: ");

byte years = scanner.nextByte();

int numberOfPayments = years. * MONTHS_IN_YEAR; //converting number of years into months.
```





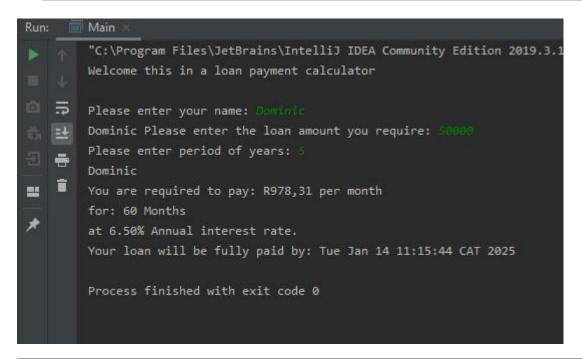
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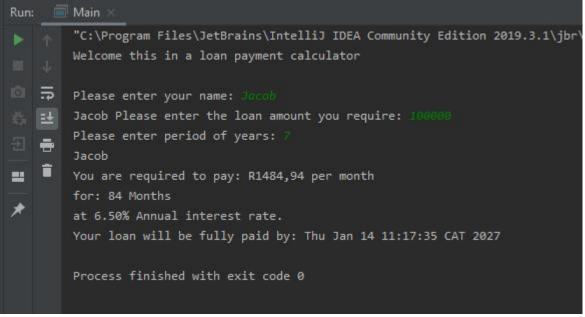
4. Output (Please attach screen output as evidence)





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5. Completed Practical Assignment Template
Completed Practical Assignment Template and attach it on LMS as a pdf file