Lipis so voiti	FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING			MARKS:
Universiti Malaysia	COURSE: Object Oriented Programming		CODE: BCS2143	
PAHANG Engineering - Constituty	TOPIC: Classes, Objects & Re	elationship		
	ASSESSMENT: HOT	NUM: 1	DURATION: 2 Hours	

Name:	MATRIC NUM:
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GENERAL INSTRUCTIONS:

- 1. Please name your project/folder using your id. Example: CB11001.
- 2. After finished, zip your folder (right click folder -> Send to -> Compressed (zipped) folder) and submit online using moodle.
- 3. This HOT will carried out 20% of your final mark.

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Write a complete *Main* class, *Company* class, *CompanyStaff* class,

StaffIncome class and StaffLoan class to produce the output as Figure 1.

You **must use** the portion of *Main* class in Figure 2 and the portion of UML diagram in Figure 3 to develop your programme.

Calculation for net income is given: net income = total income - total loan

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STAFF INCOME REPORT

Staff Name: Syahrir

Position: Project Manager

Basic Salary: Amount per month is \$10000.00

Bonuses: Amount per month is \$5000.00 House Loan: Loan per month is \$2000.00 Car Loan: Loan per month is \$2000.00 Total Income per month is: \$15000.00 Total Loan per month is: \$4000.00 Net Income per month: \$11000.00

Staff Name: Adrian

Position: Software Designer

Basic Salary: Amount per month is \$8000.00
House Loan: Loan per month is \$2000.00
Car Loan: Loan per month is \$1000.00
Total Income per month is: \$8000.00
Total Loan per month is: \$3000.00

Net Income per month: \$5000.00

Staff Name: Nabilah

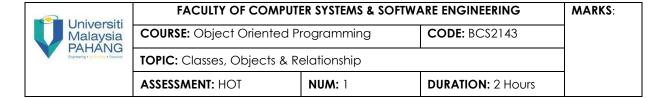
Position: Senior Programmer

Basic Salary: Amount per month is \$6000.00

Overtime Allowance: Amount per month is \$2000.00

Car Loan: Loan per month is \$1000.00 Total Income per month is: \$8000.00 Total Loan per month is: \$1000.00 Net Income per month: \$7000.00

Figure 1



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```
import java.text.*;
public class Main {
  public static void main(String[] args) {
  DecimalFormat df = new DecimalFormat("0.00");
              company = new Company();
  Company
  CompanyStaff staff;
  company.addEmployee("Syahrir","Project Manager");
  staff = company.getStaff(0);
  staff.addStaffIncome(new StaffIncome("Basic Salary",10000.00));
  staff.addStaffIncome(new StaffIncome("Bonuses",5000.00));
  staff.addStaffLoan(new StaffLoan("House Loan",2000.00));
  staff.addStaffLoan(new StaffLoan("Car Loan",2000.00));
  company.addEmployee("Adrian", "Software Designer");
  staff = company.getStaff(1);
  staff.addStaffIncome(new StaffIncome("Basic Salary",8000.00));
  staff.addStaffLoan(new StaffLoan("House Loan",2000.00));
  staff.addStaffLoan(new StaffLoan("Car Loan",1000.00));
  company.addEmployee("Nabilah", "Senior Programmer");
  staff = company.getStaff(2);
  staff.addStaffIncome(new StaffIncome("Basic Salary",6000.00));
  staff.addStaffIncome(new StaffIncome("Overtime Allowance",2000.00));
  staff.addStaffLoan(new StaffLoan("Car Loan",1000.00));
  // Generate a report
  //complete your code for main class here
  }
```

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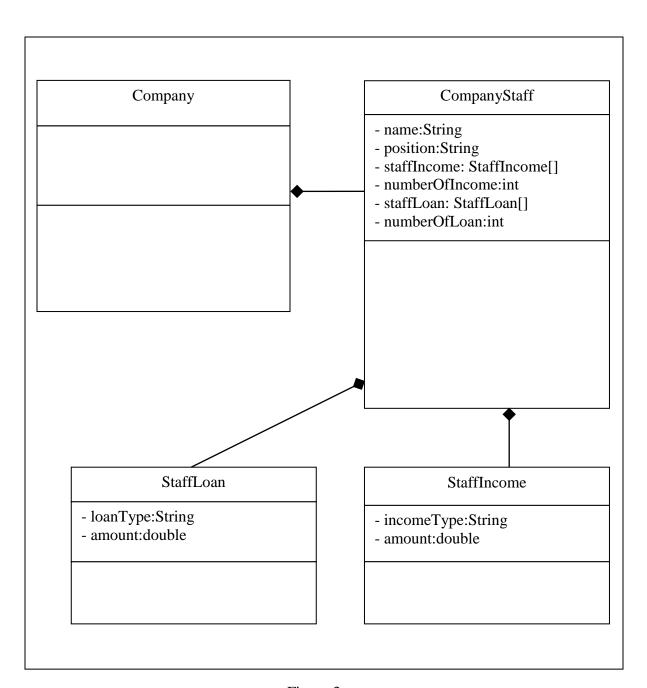


Figure 3