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| **COURSE** | : | F3031 Object Oriented Programming |
| **LABSHEET** | : | 1 |
| **TITLE** | : | Class and Objects |
| **matric. no & name** | : |  |
| **PROGRAM** | : |  |
| **date** | : |  |

**Objectives:**

By the end of this lab, students should be able to:

1. Define classes, objects, attributs and methods in any scenarios or use case study.
2. Write a program base on an orientation of an objects and classes.

**Instructions**

1. List down the answer for question number 1 and 2, in format as below

Class/Object

attributs

methods

1. Write a code in question number 3 and 4, compile and debug the code then save it as stated in the question.

1. There are five hundreds students in Faculty of Computer Science and Information System at University of Technology Malaysia. Every student in this faculty hold his or her own profile such as a matric number, identity card number, full name, handphone number, majoring course, department, college code and academic advisor. Every semester each student has to register the subject code that will be taken for the semester. They are also have to pay their fee studies for that semester. There are 50 subjects will be offered to students every semester, each subject consists of subject code, subject name and credit hours. Every subject has to registered before it could be offered to the students. Registered subjects will be display for the student to chose.

Define classes, objects, attributs and methods from the situations are described in the question number 1.

2 marks

1. A bank account consists of a name of depositor, account number, type of account and balance amount in the account. Depositor can deposit an amount into their account and withdraw their amount.

Define classes, objects, attributs and methods from the situations are described in the question number 2.

2 marks

1. Type the coding below and save it as SCRIPT\_1.cpp. Put SCRIPT\_1.cpp into folder, then give the folder name as your matric number.

#include <iostream>

using namespace std;

class person{

char name[30];

int age;

public:

void getdata(void);

void display(void);

};

void person::getdata(void){

cout << "ENTER NAME:" << ;

cin >> name;

cout << "ENTER AGE" << endl;

cin >> age;

}

void person::display(void){

cout << "\n NAME:" << name;

cout << "\n AGE:" << age;

}

int main(){

person p;

p.getdata();

p.display();

return 0;

}

2 marks

1. This program will output an error compilation. You have to fix the error, then find out the causes of an error.

#include <iostream>

using namespace std;

class Date{

int m\_nMonth;

int m\_nDay;

int m\_nYear;

};

int main()

{

Date cDate;

cDate.m\_nMonth = 10;

cDate.m\_nDay = 14;

cDate.m\_nYear = 2020;

return 0;

}

2 marks

1. Type the coding below and save it as SCRIPT\_2.cpp. Put SCRIPT\_2.cpp into folder, then give the folder name as your matric number.

#include <iostream>

#include <string.h>

using namespace std;

class FLOWER{

public:

char name[50];

char color[5];

double price;

int quantity;

public:

void display();

double calculate();

};

void FLOWER::display(){

price=29.00;

quantity=10;

char color[9]="PINK";

cout << "PRICE FOR EACH FLOWER IS RM : " << price << endl;

cout << "THERE ARE " << quantity << " FLOWRES IN THE VASE" << endl;

cout << "THE COLOR OF FLOWER IS : " << color << endl;

cout << "THE AMOUNT CUSTOMER SHOULD PAY FOR THE FLOWERS IS RM :" << calculate() << endl;

}

double FLOWER::calculate(){

double total;

total=price\*quantity;

return total;

}

int main(){

FLOWER FLOWER1;

FLOWER1.display();

}

2 marks