MTS 3033 Object Oriented Programming

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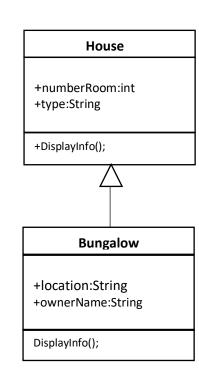
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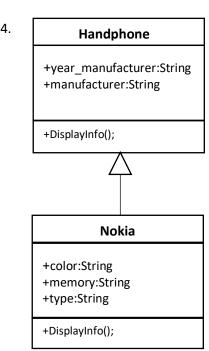
Assignment #5 (Due Date 22/12/21 @ 11pm)

Instruction: Written and paste your print screen on this worksheet. Write your program using Notepad and compile using Command Prompt.

Write a suitable inheritance program according to the following program. [20 marks:5 marks each]

1. 2. School Perodua +engine capacity:int +schoolType:String +numberStudent:int +year manufacture:String +color:String +DisplayInfo(); +Distance(); +DisplayInfo(); **Teacher** Axia +SubjectTeach:String +engine capacity:int +year manufacture:String +color:String +does(); +Distance(); 3. 4. House Handphone





SOALAN 1:

```
Axia - Notepad
                                                                                                                                                                                                                                                               File Edit Format View Help
class Perodua
      int engine_capacity = 1500;
String year_manufacture = "2020";
String color = "White";
String name = "Perodua";
      void DisplayInfo()
           System.out.println("*******Information of Vehicle*******");
          System.out.println("********information of Venicle*****;
System.out.println();
System.out.println("Vehicle name: "+name);
System.out.println("Vehicle color: "+color);
System.out.println("Year manufacture: "+year_manufacture);
System.out.println("Vehicle Engine Capacity: "+engine_capacity+" cc");
      void Distance()
          float speed = 120;
float time = 5;
float distance-speed*time;
System.out.println();
System.out.println("Distance travelled by "+name+" is : "+distance+" km" );
public class Axia extends Perodua
     int engine_capacity = 1000;
String year_manufacture = "2021";
String color = "Black";
String name = "Axia";
void Distance()
                                                                                                                                                                                       Ln 1, Col 1
                                                                                                                                                                                                                    100% Windows (CRLF) UTF-8
 📕 Axia - Notepad
 File Edit Format View Help
public class Axia extends Perodua
     int engine_capacity = 1000;
String year_manufacture = "2021";
String color = "Black";
String name = "Axia";
      void Distance()
          float speed = 100;
float time = 3;
float distance=speed*time;
System.out.println();
System.out.println();
System.out.println("Distance travelled by "+name+" is : "+distance+" km" );
     public static void main(String[] args)
           Perodua myPerodua = new Perodua();
           myPerodua.DisplayInfo();
           myPerodua.Distance();
           Axia myAxia = new Axia();
myAxia.Distance();
                                                                                                                                                                                       Ln 1, Col 1
                                                                                                                                                                                                                   100% Windows (CRLF) UTF-8
```



SOALAN 2:

```
📕 Teacher - Notepad
                                                                                                                                                                                                          File Edit Format View Help
    int number_student = 1000;
String school_type = "High School";
    public void DisplayInfo()
        System.out.println("*******Information of School and Teacher******");
System.out.println();
System.out.println("The school type is : " +school_type);
System.out.println("This school have " +number_student+ " students. ");
public class Teacher extends School
    String subject_teaching = "Object Oriented Programming";
    public void does()
        System.out.println();
System.out.println("Puan Asmara teach " +subject_teaching+ " in this school.");
    public static void main(String[] args)
        Teacher teacherObject = new Teacher();
teacherObject.DisplayInfo();
        teacherObject.does();
                                                                                                                                                  Ln 1, Col 1
                                                                                                                                                                         100% Windows (CRLF) UTF-8
Administrator: Command Prompt
 :\>javac Teacher.java
C:\>java Teacher
*******Information of School and Teacher******
The school type is : High School
This school have 1000 students.
  uan Asmara teach Object Oriented Programming in this school.
```

SOALAN 3:

```
Bungalow - Notepad
 File Edit Format View Help
class House
    int room_number = 10;
String house_type = "Bungalow";
    void DisplayInfo()
        System.out.println("********Information of Bungalow House*******");
System.out.println();
System.out.println("The room number you get is : " +room_number);
System.out.println("This house type is " +house_type);
System.out.println():
         System.out.println();
public class Bungalow extends House
    String bungalow_location = "TB 17679 Bandar Sri Indah, 91000 Tawau, Sabah"; String owner_name = "Mohd Izzul Ikhwan";
    void DisplayInfo()
        System.out.println("The Bungalow is located in " +bungalow_location);
System.out.println("The owner of that Bungalow is En." +owner_name);
    public static void main(String[] args)
        House houseObject = new House();
houseObject.DisplayInfo();
        Bungalow bungalowObject = new Bungalow():
                                                                                                                                                  Ln 1, Col 1
                                                                                                                                                                         100% Windows (CRLF) UTF-8
Bungalow - Notepad
File Edit Format View Help
int room_number = 10;
String house_type = "Bungalow";
    void DisplayInfo()
         System.out.println();

System.out.println("The room number you get is: " +room_number);

System.out.println("This house type is " +house_type);
         System.out.println();
public class Bungalow extends House
    String bungalow_location = "TB 17679 Bandar Sri Indah, 91000 Tawau, Sabah"; String owner_name = "Mohd Izzul Ikhwan";
    void DisplayInfo()
        System.out.println("The Bungalow is located in " +bungalow_location); System.out.println("The owner of that Bungalow is En." +owner_name);
    public static void main(String[] args)
         House houseObject = new House();
         houseObject.DisplayInfo();
        Bungalow bungalowObject = new Bungalow();
bungalowObject.DisplayInfo();
                                                                                                                                                  Ln 1, Col 1 100% Windows (CRLF) UTF-8
```



SOALAN 4:

```
Nokia - Notepad
                                                                                                                                                                                                                                                File Edit Format View Help
class Handphone
     String year_manufacture = "2021";
String manufacture = "HMD Global OY, Finland.";
     void DisplayInfo()
            System.out.println("******Welcome to Nokia Phone*******");
            System.out.println();
System.out.println();
System.out.println("The year manufacture of this Nokia phone is on " +year_manufacture+ " year.");
System.out.println("This Nokia phone is manufacture in " +manufacture);
System.out.println();
public class Nokia extends Handphone
     String type = "Flip Gen";
String memory = "200 GB, 500 GB and 1 TB";
String color = "white, black, red and Blue";
     void DisplayInfo()
          System.out.println("The new phone type that Nokia manufacture is " +type+ " type.");
System.out.println("The memory space that Nokia provide to this new type is " +memory+ " only");
System.out.println("The colour that Nokia provide to customer is " +color+ " only.");
     }
     public static void main(String[] args)
          Handphone handphoneObject = new Handphone();
          handphoneObject.DisplavInfo();
                                                                                                                                                                            Ln 1, Col 1
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📕 Nokia - Notepad
File Edit Format View Help
            System.out.println("******Welcome to Nokia Phone******");
            System.out.println();
System.out.println();
System.out.println("The year manufacture of this Nokia phone is on " +year_manufacture+ " year.");
System.out.println("This Nokia phone is manufacture in " +manufacture);
System.out.println();
    }
public class Nokia extends Handphone
     String type = "Flip Gen";
String memory = "200 GB, 500 GB and 1 TB";
String color = "white, black, red and Blue";
     void DisplayInfo()
          System.out.println("The new phone type that Nokia manufacture is " +type+ " type.");
System.out.println("The memory space that Nokia provide to this new type is " +memory+ " only");
System.out.println("The colour that Nokia provide to customer is " +color+ " only.");
     public static void main(String[] args)
          Handphone handphoneObject = new Handphone();
handphoneObject.DisplayInfo();
          Nokia nokiaObject = new Nokia();
nokiaObject.DisplayInfo();
                                                                                                                                                                            Ln 1, Col 1
                                                                                                                                                                                                      100% Windows (CRLF) UTF-8
```

