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| --- | --- |
| **Assignment Case** |  |
| COMP6178 | COMP6178003  Introduction to Programming |
| **Computer Science** | **O233-COMP6178-BE16-01** |
| ***Valid on*** *Odd Semester Year 2022/2023* | **Revision 00** |

1. Seluruh mahasiswa tidak diperkenankan untuk:

*All students are not allowed to:*

* + - Berdiskusi dan/atau bekerja sama dengan mahasiswa lainnya,

*Discuss and/or work together with other student participants,*

* + - Melihat sebagian atau seluruh jawaban mahasiswa lain,

*Seeing a part or the whole answer from another student,*

* + - Membuka dan menyalin dari **BUKU** atau **CATATAN**, **VIDEO** dari pengajar (recording kelas, VBL, Youtube, dsb) dan **REFERENSI** lainnya,

*Open and copy from any resources such as notes, videos (class recording, VBL, Youtube, etc) and other references,*

* + - Membuka dan menyalin jawaban dari internet (google, stackoverflow, dsb),

*Open and copy answer from the internet (google, stackoverflow, etc),*

* + - Mengerjakan soal yang tidak sesuai dengan tema yang ada di soal,

*Working with another theme which is not in accordance with the existing theme in the matter of the case,*

* + - Melakukan tindakan kecurangan lainnya,

*Committing other dishonest actions,*

* + - Secara sengaja maupun tidak sengaja melakukan segala tindakan kelalaian yang menyebabkan hasil karyanya berhasil dicontek oleh orang lain / kelompok lain.

*Accidentally or intentionally conduct any failure action that cause the results of the project was copied by someone else / other groups.*

1. Jika mahasiswa terbukti melakukan tindakan seperti yang dijelaskan butir 1 di atas, maka **nilai mahasiswa** yang melakukan kecurangan (menyontek maupun dicontek) akan di – **NOL** – kan.

*If the student is proved to the actions described in point 1 above, the score of the student which committed dishonest acts (cheating or being cheated) will be “Zero”.*

1. Perhatikan jadwal pengumpulan jawaban, segala jenis pengumpulan jawaban di luar jadwal tidak dilayani.

*Pay attention to the submission schedule, all kinds of submission outside the schedule will not be accepted.*

1. Bila Anda tidak membaca peraturan ini, maka Anda dianggap telah membaca dan menyetujuinya

*If you have missed to read these regulations, so you are considered to have read and agreed on it.*

1. Persentase penilaiaan untuk matakuliah ini adalah sebagai berikut:

*Marking percentage for this subject is described as follows:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| 40% | - | 60% |

1. Software yang digunakan pada matakuliah ini adalah sebagai berikut:

*Software will be used in this subject are described as follows:*

|  |
| --- |
| **Software**  *Software* |
| Eclipse 2020.6  Java 11 |

1. Ekstensi file yang harus disertakan dalam pengumpulan tugas mandiri, proyek, dan uap untuk matakuliah ini adalah sebagai berikut:

*File extensions should be included in assignment, project, and final exam collection for this subject are described as follows:*

|  |  |  |
| --- | --- | --- |
| **Tugas Mandiri**  *Assignment* | **Proyek**  *Project* | **UAP**  *Final Exam* |
| JAVA, CLASS | - | JAVA, CLASS |

## Soal

*Case*

**Pharmacy Store**

**Pharmacy Store** is a medicine store that collects many types of medicinal product entries. In order to map every new medicine entry, the owner of **Pharmacy Store** asked you to create a program to help the Input New Medicine Data. The requirements are:

* The application consists of **2 menus**:

1. **Insert New Medicine**
2. **Exit**



*Figure 1. Main Menu*

* If user choses menu **1** (“**Insert New Medicine**”), then the program will:
* Ask the user to **input** the **medicine type**. Validate that the **medicine type** must be either “**Liquid**”, “**Capsule**”, or “**Inhaler**” (Case Sensitive).
* Ask the user to **input** the **medicine name**. Validate that the **medicine name** must at least **more than** **5 characters long** and must have at least **2 words**.
* Ask the user to **input** the **medicine consumption dose**. Validate that the **medicine consumption dose** must be between 1 to 5 usage per 24 hours.
* Ask the user to **input** the **medicine pharmacy pickup address.** Validate that the address must **ends with** “ Street” and **alphanumeric**.

Text, letter

Description automatically generated

*Figure 2. Insert New Medicine*

* Determine the **type price** based on this table:

|  |  |
| --- | --- |
| Type | Type Price |
| Liquid | 10 |
| Capsules | 20 |
| Inhaler | 30 |

* Calculate the **production cost** based on this formula:

|  |
| --- |
| **Production Cost = Type Price + (Dose \* 2000)** |

* Display the product detail that consist of **medicine type**, **medicine name**, **medicine dose, medicine pickup address**, and **production cost** then ask the user to **input** the **payment** amount. Validate that the **payment** must **more than or equals total price**.

Text

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*Figure 3. Print Medicine Detail*

* If user choses **menu 2** (“**Exit**”), then the program will be closed.

Here are the **rules** that you must follow to create your project:

1. Use **appropriate software** for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
2. Use the **techniques taught during practicum**
3. Collect **appropriate files** for this subject based on **Sistem Praktikum** that can be downloaded from Binusmaya.
4. Include the **other files** that can support your project, such as:
   * All files in your project.
   * Other files (image, audio, video, etc.) used in your project.

**If you do not understand, please ask your assistant! Do not make your own assumption!**