**نموذج النشاط العملي الأسبوعي**

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| **اسم المادة:** | **الرسم بالحاسب** | **أستاذ المادة:** | **د/ محمد كاظم** |
| **الفصل الدراسي:** | **الثانى** | **العام الدراسي:** | **2024 / 2025** |

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| **A black clipboard with white check marks  Description automatically generated** | **نشاط رقم ( 1 )** | | | | | | | |
| **رقم الأسبوع:** | | 3 | | **يبدأ من:** | /3/20251 | **ينتهي في:** | | 7/3/2025 |
| 🗎 **الموضوع:** | | write python program for managing ATM Machine, first of all the user needs passkey to enter program,then a list appears:  1.to withdraw money.  2.press 2 to transfer money.  3.to deposit money.  4.to display current balance.  do the program with 2 times, one with an unifinite loop using while, and the other one time without loop. | | | | | | |
| ⌛ **زمن النشاط:** | | أسبوع | | | | | | |
| 🗹 **الهدف من النشاط:** | | 1. **Learn Basic Programming:**    * **Understand how to write simple programs in Python, including variables, conditions, and loops.** 2. **Enhance Problem-Solving Skills:**    * **Develop the ability to analyze problems and design software solutions for them.** 3. **Understand Conditional Statements and Loops:**    * **Learn how to use conditional statements (if-else) and loops (while) in Python.** 4. **Improve Logical Thinking:**    * **Enhance logical thinking skills by organizing the flow of the program and identifying available options for the user.** 5. **Gain Practical Experience:**    * **Acquire hands-on experience in writing and testing Python code, making it easier to understand theoretical concepts.** 6. **Apply Object-Oriented Programming Concepts (if the program is expanded in the future):**    * **If the program is further developed, principles of object-oriented programming can be applied to increase code organization and maintainability.** | | | | | | |
| 🖶 **الموارد المطلوبة:** | | ✓ حاسب آلي | 🞏 إنترنت | | 🞏 جهاز عرض | 🞏 أوراق وأقلام | 🞏 أخرى: | |
| ✍ **إجراءات النشاط: These points are applied in the sections** | | | | | | | | |
| 1. **Define the Objective:**    * **Understand the goal of the activity, which is to develop a simple ATM management program using Python.** 2. **Set Up the Working Environment:**    * **Ensure Python is installed on your computer.**    * **Open a text editor or an Integrated Development Environment (IDE) such as PyCharm or Visual Studio Code.** 3. **Write the Code:**    * **Write the necessary code to create the ATM program, keeping in mind the use of loops and conditional statements.** 4. **Test the Program:**    * **Save the file with a .py extension (e.g., atm\_machine.py).**    * **Open the command line or terminal.**    * **Navigate to the directory where the file is saved.**    * **Run the program using the command python atm\_machine.py.** 5. **Analyze the Results:**    * **Check the program's output and ensure it works as expected.**    * **Review the different functionalities such as withdrawal, transfer, deposit, and balance display.** 6. **Modify and Experiment:**    * **Experiment by modifying the program to add new features or improve existing functionalities.**    * **Try running the program without a loop, then with a loop to test the differences.** 7. **Evaluate Performance:**    * **Determine if the program meets the defined objectives.**    * **Assess the ease of use and interaction with the program.** 8. **Take Notes:**    * **Write down observations about what was learned during the activity and any challenges faced.** | | | | | | | | |