techtalent academy

TechTalent Academy
Safeguarding Policy

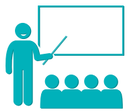
*“Protecting an adult’s right to live in **safety, free from abuse and neglect**. It is about people and organisations working together to **prevent and stop both the risks and experience of abuse or neglect**, while at the same time making sure that the **adult’s wellbeing is promoted** including, where appropriate, having regard to their views, wishes, feelings and beliefs in deciding on any action. This must recognise that adults sometimes have complex interpersonal relationships and may be ambivalent, unclear or unrealistic about their personal circumstances.”*

If you have a safeguarding concern, please raise this with your tutor or via the safeguarding link on our website:

https://www.techtalent.co.uk/safeguarding-statement

TechTalent’s safeguarding lead is: **Max Ruddock**

Python Project



Python project

- You are going to use the different Python concepts seen to build a program that will simulate the behaviour of an ATM. Follow the instructions below:

1.Print a main menu to ask the user different options for displaying the bank account balance, for depositing money, to withdraw money, and to exit from the ATM. Ideally create a function for each menu option to be executed. Use conditional statements for asking the user the different menu options.

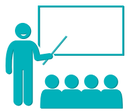
-Re-use the ATM menu options across the program to ask the user if he/she would like to perform another operation on the bank account.

- Ask the user a PIN to access to the ATM menu once the PIN is correct otherwise ask the user to try again.

Python project

2. Prompt the user to enter an option:

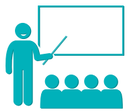
- If ‘1’ is entered, display the current balance and return to main menu.
- If ‘2’ is entered, print a sub-menu with different withdrawal amounts :
  - Check that the requested withdrawal is allowed, print a message to show that the money has been withdrawn, calculate the new balance and return to main menu.
  - If ‘7’ is selected, then prompt the user for an integer value. Check this number is a multiple of 10 and that the withdrawal is permitted, print a message to show that the money has been withdrawn, calculate the new balance and return to main menu.
  - If ‘3’ is entered, provide another menu that will allow the user to enter an amount to deposit , return to main menu or return card. If funds are deposited, provide appropriate feedback and update the balance and return to main menu.
  - If ‘9’ is entered, print a goodbye message and exit (break).
  - If another value is entered, print an error message and print the menu again.



Python project

2. Prompt the user to enter an option:

- If '1' is entered, display the current balance and return to main menu.
- If '2' is entered, print a sub-menu with withdrawal amounts Enter an option:
  - If '1 to 6'' is selected check that the requested withdrawal is allowed, print a message to show that the money has been withdrawn, calculate the new balance and return to main menu.
  - If '7' is selected, then prompt the user for an integer value. Check this number is a multiple of 10 and that the withdrawal is permitted, print a message to show that the money has been withdrawn, calculate the new balance and return to main menu.
  - If '3' is entered, provide another menu that will allow the user to enter an amount to deposit , return to main menu or return card. If funds are deposited, provide appropriate feedback and update the balance and return to main menu.
  - If '9' is entered, print a goodbye message and exit (break).
  - If another value is entered, print an error message and print the menu again.



Python project

- To go further you could define a class that encapsulates the functionality and variables related to the ATM. Create a class named ATM and defines the class attributes (balance of the bank account, menu options). Create different class methods to operate the ATM based on the menu options.

- To add a graphic interface to your program, you could use Tkinter library or PyQt.:

https://realpython.com/python-gui-tkinter/

https://realpython.com/python-pyqt-gui-calculator/

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