

Aim : To write simple python programs to accept input from user and checks if it is valid and continuous prompting until a valid integer is entered

Hardware and Software requirements : hardware-16GB RAM, Intel Processor(i9), software: Python (Version 3.x.), Google Colab

System Configuration : Operating System: Windows 11, IDE: Google Colab

Theory : Exceptional handling in python is managed using the try, except and optionally finally blocks. When the code inside the try block raises an error (an "exception"), the program control moves to the except block. This helps prevent program crash due to invalid inputs or expect block.

Write a program that receives an integer an input. If a string is entered instead of an integer, then report an error and give another chance to user to enter an integer. Continue this process till correct input is supplied.

```
while True:
    try:
        # Take input from the user
        user_input = input("Please enter an integer: ")

        # Try to convert the input to an integer
        user_input = int(user_input)

        # If successful, break the loop
        print(f"Thank you! You entered the integer: {user_input}")
        break
    except ValueError:
        # If conversion fails, show an error message and prompt again
        print("Error: That's not an integer. Please try again.")
```

```
➞ Please enter an integer: 5
Thank you! You entered the integer: 5
```