

DOB

August 23, 2023

Write a program which accepts as input a DOB in the format “dd/mm/yyyy” and prints AGE of the person. Validate the input using Exceptional Handling. If no input is given, prompt user to enter input. If “?” is typed, help the user by telling him/her to enter Data of Birth in the required format. If date is entered, validate the correctness of the date and print AGE. If “q” or “Q” is entered, invoke a user-defined exception which quits the program after printing “Bye! Hope you run this program again”.

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[ ]: import datetime

class InvalidDOB(Exception):
    pass

def cal(dob):
    today=datetime.date.today()
    age=today.year - dob.year - ((today.month, today.day) < (dob.month, dob.
    ↪ day))
    return age

def get_dob():
    while True:
        try:
            dob_str=input("Enter DOB (dd/mm/yyyy), '?' for help, or 'q' to quit:
            ↪ ")

            if not dob_str:
                raise ValueError("DOB cannot be empty.")
            elif dob_str.lower()=='q':
                raise InvalidDOB("Bye! Hope you run this program again.")
            elif dob_str.lower()=='?':
                print("Please enter DOB in the format 'dd/mm/yyyy'.")
                continue

            dob = datetime.datetime.strptime(dob_str, "%d/%m/%Y").date()
            if dob > datetime.date.today():
                raise InvalidDOB("Invalid DOB. DOB cannot be in the future.")

            return dob
        except ValueError as ve:
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        print(f"Invalid input: {ve}")
    except InvalidDOB as ide:
        print(ide)
    except Exception as e:
        print(f"An error occurred: {e}")

def main():
    try:
        dob = get_dob()
        age = cal(dob)
        print(f"Your age is: {age} years")
    except KeyboardInterrupt:
        print("Cancelled")
    except Exception as e:
        print(f"Error : {e}")

if __name__ == "__main__":
    main()

```

Bye! Hope you run this program again.

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Please enter DOB in the format 'dd/mm/yyyy'.

Please enter DOB in the format 'dd/mm/yyyy'.

Invalid input: time data '0805/2001' does not match format '%d/%m/%Y'

Your age is: 22 years