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".

```python
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("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("DOB is not valid")

            return dob
        except ValueError as ve:
```

```python
            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()
```

```
Invalid input: time data ' ' does not match format '%d/%m/%Y'
Invalid input: Cannot Be Empty
Invalid input: Cannot Be Empty
Invalid input: Cannot Be Empty
Bye! Hope you run this program again.
Your age is: 22 years
```