

2347126_p5

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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”.

```
[ ]: import datetime

class invaliddatetime(Exception):
    pass

class quit(Exception):
    pass

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

def DOB_input():
    while True:
        dob_input = input("Enter Date of Birth (dd/mm/yyyy), ? for help, or q
        to quit: ")
        dob_input = dob_input.strip()

        if not dob_input:
            print("No input provided. Please enter Date of Birth or q to quit.")
            continue
        elif dob_input.lower() == 'q':
            raise quit("Bye! Hope you run this program again.")

        if dob_input == "?":
            print("Please enter Date of Birth in the format dd/mm/yyyy.")
            continue

    try:
```

```

        dob = datetime.datetime.strptime(dob_input, "%d/%m/%Y").date()
        return dob
    except ValueError:
        print("Invalid date format. Please use the format dd/mm/yyyy.")
        continue

try:
    while True:
        try:
            dob = DOB_input()
            age = AgeCalculate(dob)
            print(f"The person's age is {age} years.")
        except invaliddatetime:
            print("Invalid date format. Please use the format dd/mm/yyyy.")
except KeyboardInterrupt as e:
    print(e)

```

No input provided. Please enter Date of Birth or q to quit.
 No input provided. Please enter Date of Birth or q to quit.
 Please enter Date of Birth in the format dd/mm/yyyy.
 Please enter Date of Birth in the format dd/mm/yyyy.
 The person's age is 21 years.
 The person's age is 21 years.
 Bye! Hope you run this program again.