

# Užduotis be pradinių failų ir testų

## 02\_2 Exercises (variables, operators, Math)

### Convert mile to kilometer

Write a program that reads a mile in a double value from the console, converts it to kilometers, and displays the result. The formula for the conversion is as follows:

1 mile = 1.6 kilometers

Here is a sample run:

```
Enter miles:
96
96 miles is 153.6 kilometers
```

### Find the number of years

Write a program that prompts the user to enter the minutes (e.g., 1 billion), and displays the number of years and remaining days for the minutes. For simplicity, assume that a year has 365 days.

Here is a sample run:

```
Enter the number of minutes:
1000000000
1000000000 minutes is approximately 1902 years and 214 days
```

### Geometry: distance of two points

Write a program that prompts the user to enter two points (x1, y1) and (x2, y2) and displays their distance. The formula for computing the distance is:

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Here is a sample run:

```
Enter x1:
1.5
Enter y1:
-3.4
Enter x2:
4
Enter y2:
5
The distance between the two points is 8.764131445842194
```