

MILESTONE 1

EXERCISE 3 WEIGHT ON MARS

Class Data:

Fields:

- Integer result
- Integer weight

Properties:

- Set Result
- Get Result
- Set Weight
- Get Weight

Methods:

- Constructor
- Overloaded Constructor
- Overloaded ToString

Class Form:

Fields:

- Button Calculate_button
- CheckBox check_box
- Label result_label, weight_label
- TextBox result_box, weight_box

Methods:

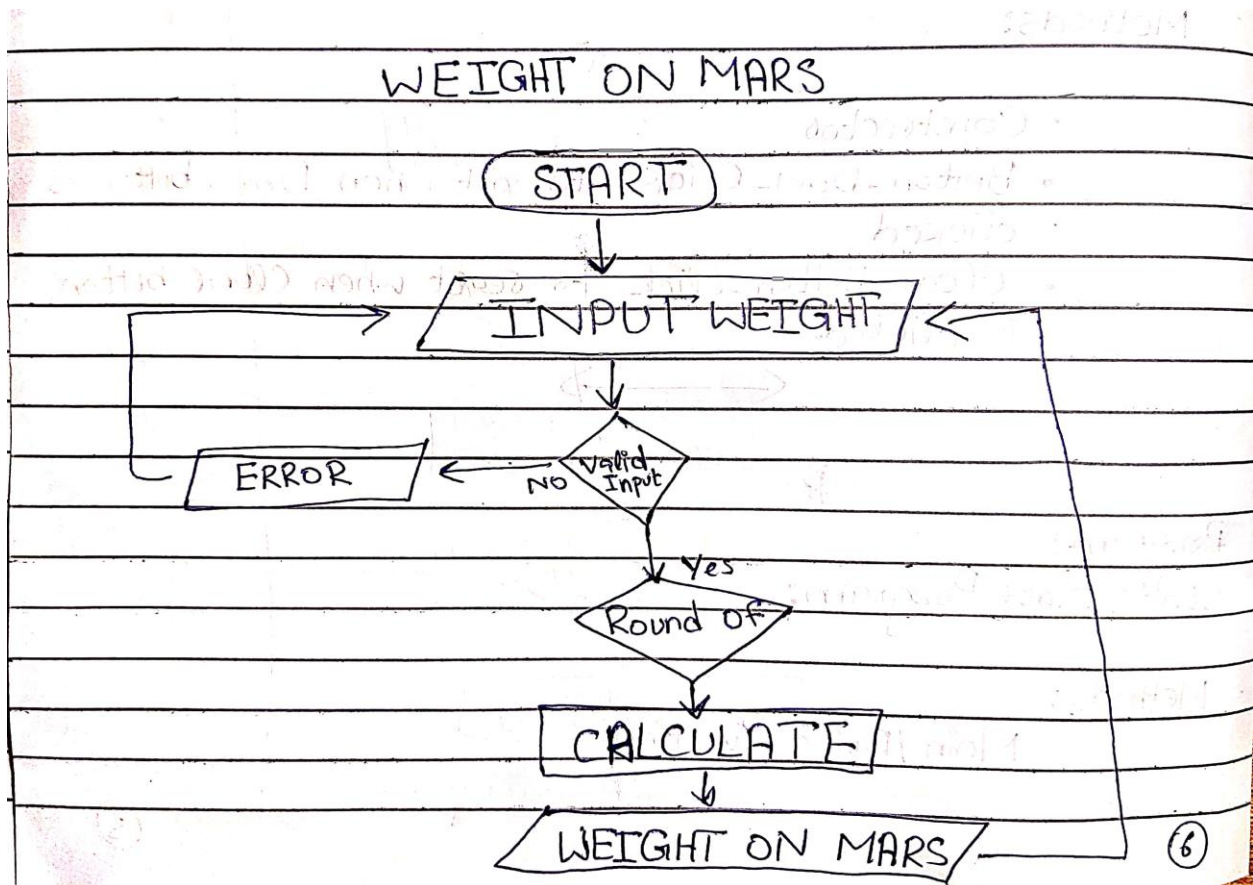
- Constructor
- Calculate_button_Click

Static Class Program:

Methods:

- Main/Driver function

Flow



Data
Class

- Fields
 - result
 - weight
- Properties
 - Result
 - Weight
- Methods
 - Data (+ 1 overload)
 - ToString

Program
Static Class

- Methods
 - Main

Form
Class
→ Form

- Fields
 - calculate_button
 - checkBox
 - components
 - result_box
 - result_label
 - weight_box
 - weight_label
- Methods
 - calculate_button_Click
 - Dispose
 - Form
 - Form_Load
 - InitializeComponent

Project 2

Shape Maker

Class Form:

Fields:

- CheckBox name_check, day_check
- Button Draw_button, Clear_button
- RadioButton fill, Outline
- Label Label2, AnswerLabel
- ComboBox fill_box, Detail_box, shape_box

Methods:

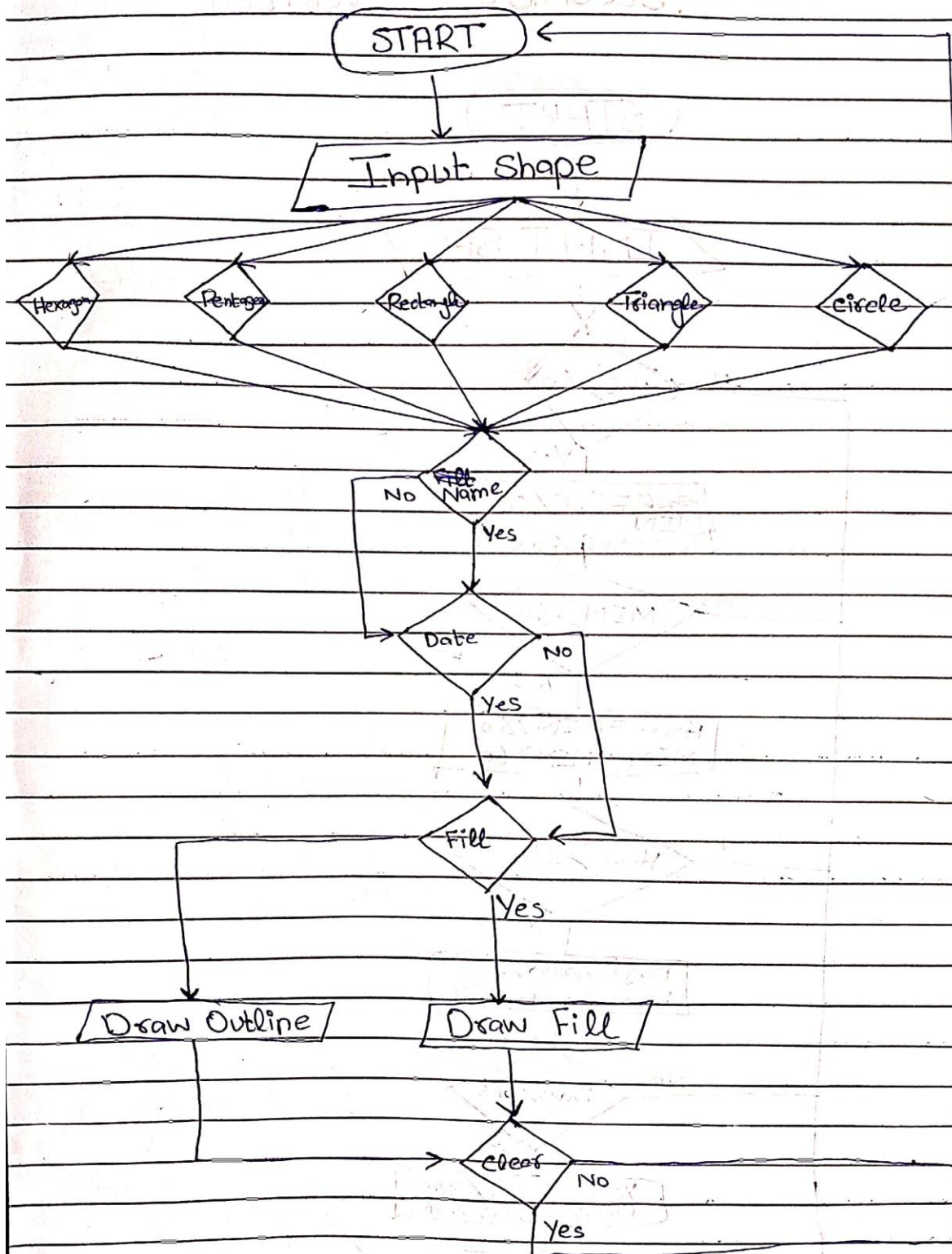
- Constructor
- Button_Draw_Click
 - To react when draw button is clicked
- Clear_Button_Click
 - To react when clear button is clicked

Static Class Program:

Methods:

- Main/Driver function

Shape Maker



Resources

Class

Fields

resourceCulture

resourceMan

Properties

Culture

ResourceManager

Methods

Resources

Form1

Class

→ Form

Fields

checkBox1

clear_button

components

date_check

details_box

draw_button

fill_box

is_fill

is_outline

label1

name_check

radioButton2

shape_box

shape_combobox

show_label

str

Methods

button1_Click

clear_button_Click

Dispose

Form1

InitializeComponent

Program

Static Class

Methods

Main

EXERCISE 4

SECONDS CONVERTER

Class Data:

Fields:

- Double all_seconds
- Double century
- Double years
- Double days
- Double hours
- Double minute
- Double seconds

Properties:

- Getter and Setter of All_Seconds
- Getter and Setter of Century
- Getter and Setter of Days
- Getter and Setter of Hour
- Getter and Setter of Minutes
- Getter and Setter of Seconds
- Getter and Setter of Years

Methods:

- Constructor
- Overloaded Constructor
- Convert
- Clear_Data
- Overloaded ToString

Class Form:

Fields:

- Label label1,answer_label

- TextBox seconds_box
- Data object
- Button convert_button

Methods:

- Constructor
- Convert_Button_Click

Static Class Program:

Methods:

- Main/Driver function

SECONDS CONVERTER

START

INPUT SEC

NO
SEC > 60

Yes

~~SEC~~ = SEC / 60
MIN
SEC = SEC % 60

NO
MIN > 60

Yes

HOURS = MIN / 60
MIN = MIN % 60

NO
HOURS > 24

Yes

DAYS = HOURS / 24
HOURS = HOURS % 24

NO
DAYS > 365

Yes

YEARS = DAYS / 365
DAYS = DAYS % 365

PRINT ALL

Resources
Class

- Fields
 - resourceCulture
 - resourceMan
- Properties
 - Culture
 - ResourceManager
- Methods
 - Resources

Program
Static Class

- Methods
 - Main

Form1
Class
→ Form

- Fields
 - answer_label
 - components
 - convert_button
 - label1
 - obj
 - seconds_box
- Methods
 - convert_button_Click
 - Dispose
 - Form1
 - InitializeComponent

Data
Class

- Fields
 - all_seconds
 - century
 - days
 - hours
 - minutes
 - seconds
 - years
- Properties
 - All_Seconds
 - Century
 - Days
 - Hours
 - Minutes
 - Seconds
 - Years
- Methods
 - Clear_Data
 - Convert
 - Data (+ 1 overload)
 - ToString

Settings
Sealed Class
→ ApplicationSettingsBase

- Fields
 - defaultInstance
- Properties
 - Default