

# PERSONAL BUDGET PLANNER

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## Description

This application is a personal budget planner. It will receive user input for full name, gross monthly income and generic expenses (tax deductions, Groceries, Water and lights, Travel costs, Cell phone/telephone and Other expenses). It will also offer a choice of renting a property (Monthly rental) or buying a property (Purchase price of property, Total deposit, Interest rate, Number of months to repay). The application will perform calculations and display a budget for the user with the money left over after deducting all expenses and a message if their home loan is likely to be approved, if they selected to buy a property. It also offers the user an option to print a report of all budgets calculated during run time. This application persists no data between runs.

## Software required:

- Visual Studio 2019

## Hardware requirements:

You will need the following hardware requirements to run Visual studio 2019

- 1.8 GHz or faster processor. Quad-core or better recommended.
- 2 GB of RAM; 8 GB of RAM recommended
- Hard disk Space: Minimum of 800MB up to 210 GB of available space.

To successfully run this application, you will require Visual Studio 2019 on your device with the following Workloads attached: .NET desktop development & Universal Windows Platform development.

### Installation

Link for the installation for Visual Studio 2019 :

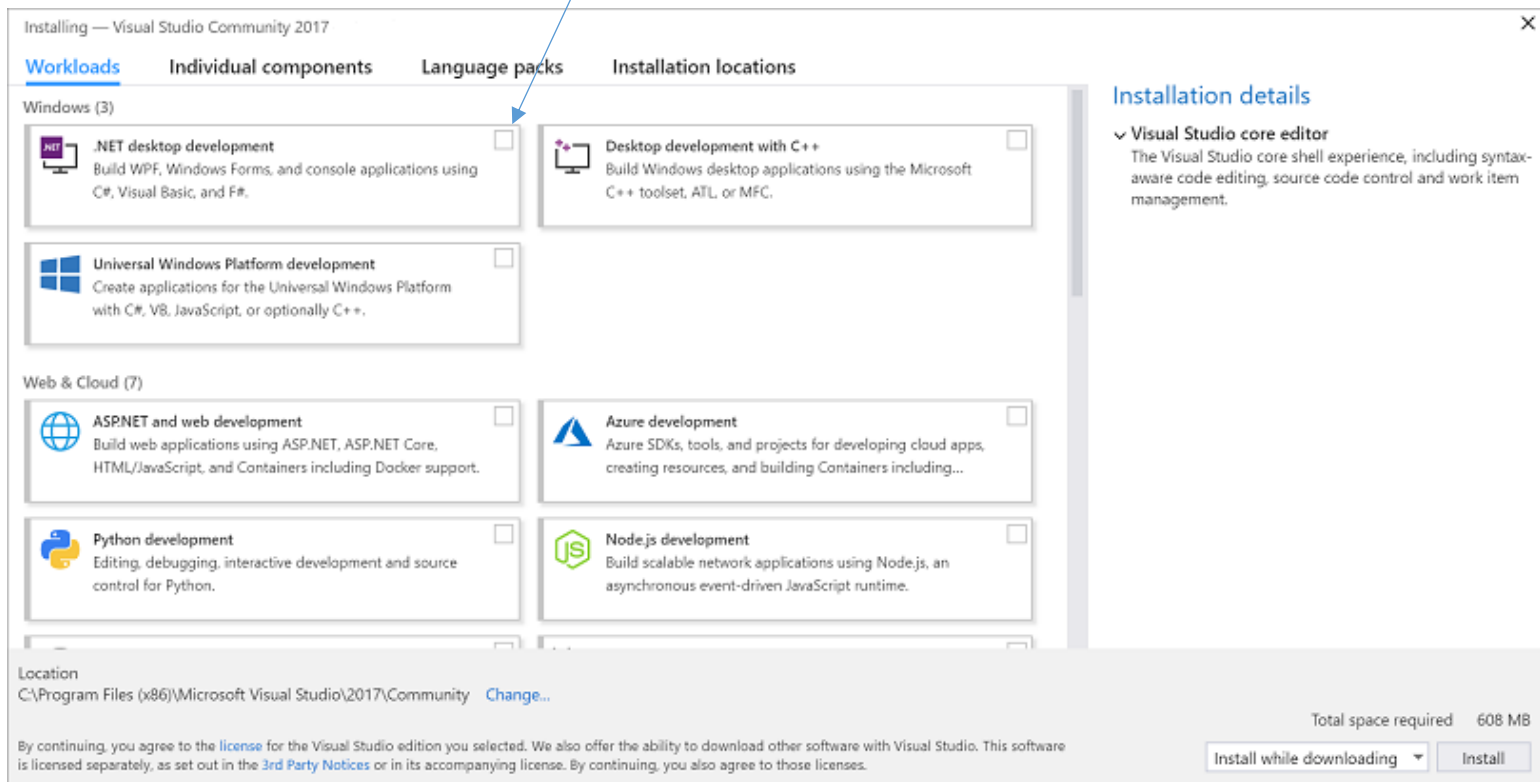
<https://visualstudio.microsoft.com/downloads/>

Link for the installation tutorial for Visual Studio 2019:

<https://docs.microsoft.com/en-us/visualstudio/install/install-visual-studio?view=vs-2019>

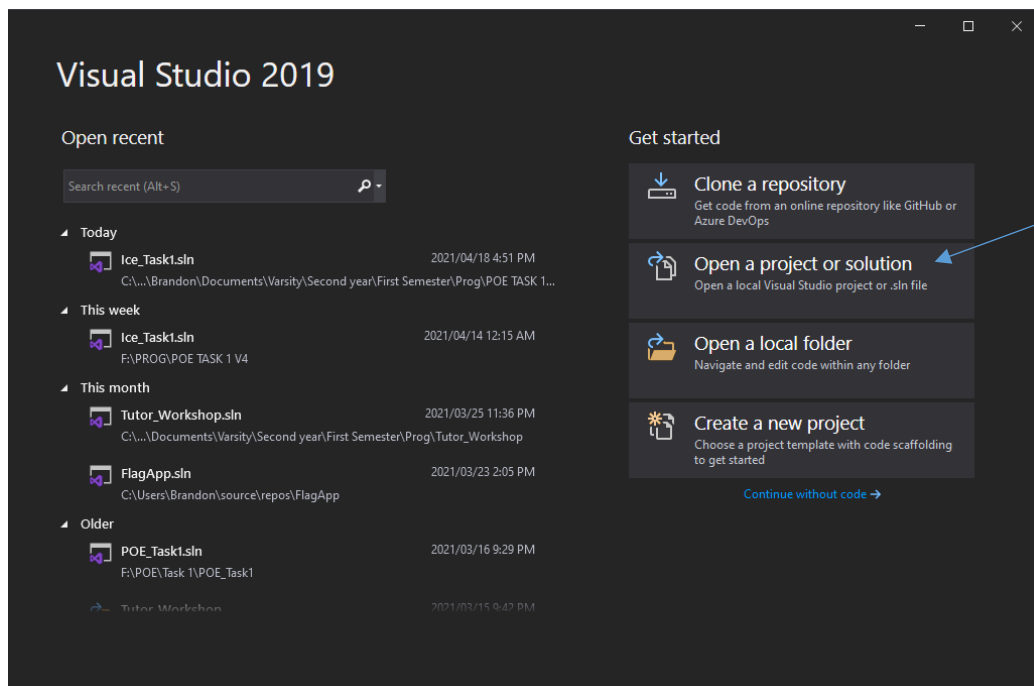
Under workloads when installing be sure to select “.Net desktop development”

Install this

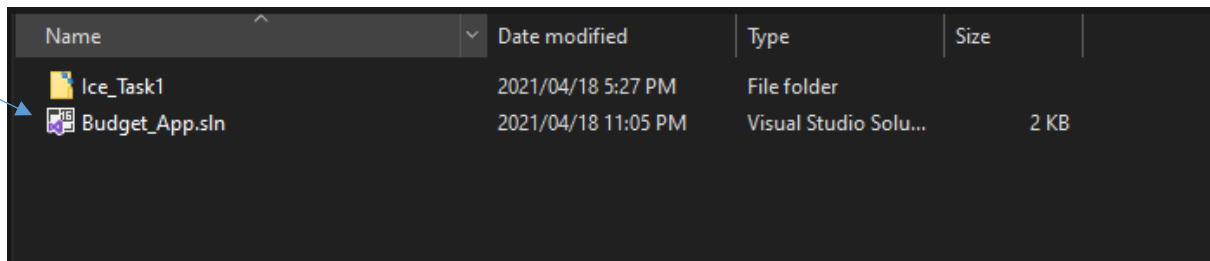


## Running the application in visual studio 2019

1. Open visual studio 2019
2. Click “Open a project or solution”

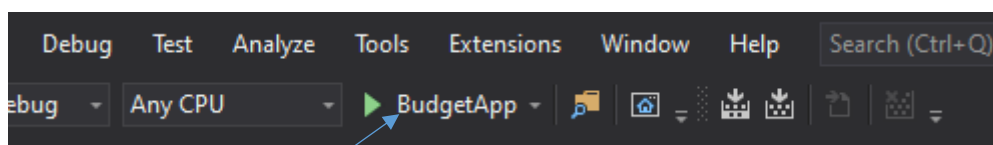


3. Unzip if necessary and open the “Budget app” folder then select the “Budget\_App.sln” file



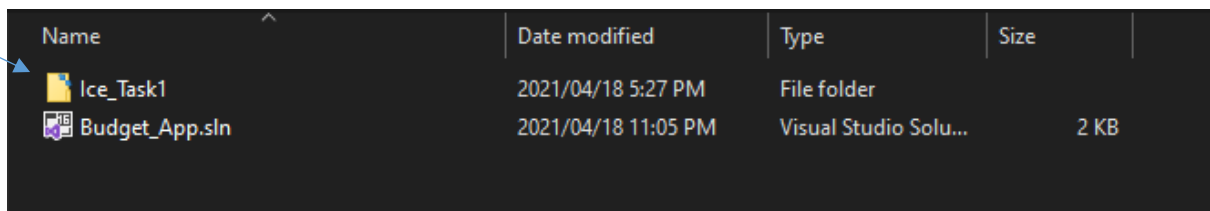
Name	Date modified	Type	Size
Ice_Task1	2021/04/18 5:27 PM	File folder	
Budget_App.sln	2021/04/18 11:05 PM	Visual Studio Solu...	2 KB

4. Click “BudgetApp” with the green play button next to it



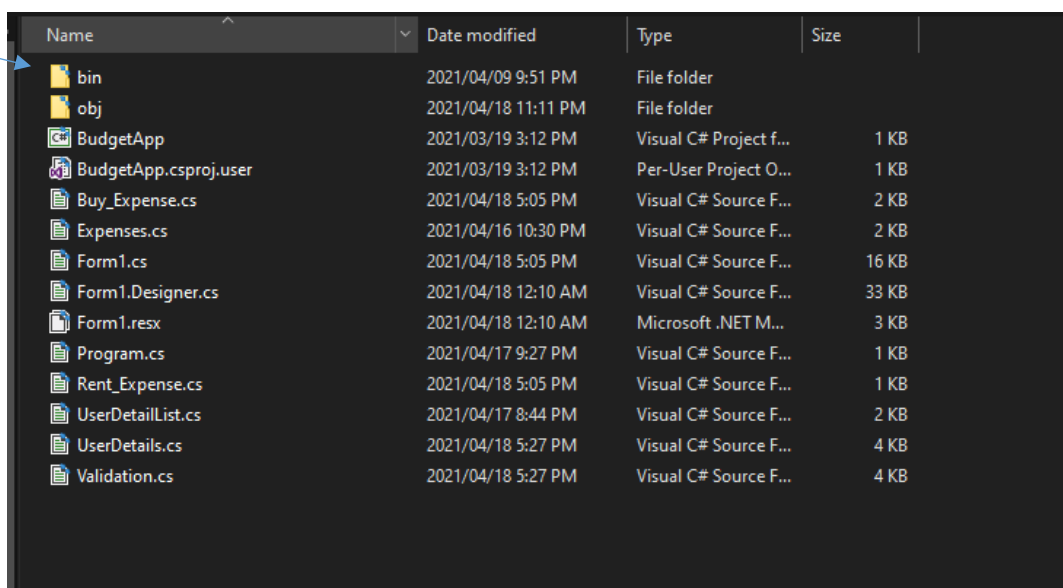
## Run application file

1. Unzip if necessary and open the “Budget app” folder
2. Open the “Ice\_Task1” folder




Name	Date modified	Type	Size
Ice_Task1	2021/04/18 5:27 PM	File folder	
Budget_App.sln	2021/04/18 11:05 PM	Visual Studio Solu...	2 KB

3. Open the “bin” folder




Name	Date modified	Type	Size
bin	2021/04/09 9:51 PM	File folder	
obj	2021/04/18 11:11 PM	File folder	
BudgetApp	2021/03/19 3:12 PM	Visual C# Project f...	1 KB
BudgetApp.csproj.user	2021/03/19 3:12 PM	Per-User Project O...	1 KB
Buy_Expense.cs	2021/04/18 5:05 PM	Visual C# Source F...	2 KB
Expenses.cs	2021/04/16 10:30 PM	Visual C# Source F...	2 KB
Form1.cs	2021/04/18 5:05 PM	Visual C# Source F...	16 KB
Form1.Designer.cs	2021/04/18 12:10 AM	Visual C# Source F...	33 KB
Form1.resx	2021/04/18 12:10 AM	Microsoft .NET M...	3 KB
Program.cs	2021/04/17 9:27 PM	Visual C# Source F...	1 KB
Rent_Expense.cs	2021/04/18 5:05 PM	Visual C# Source F...	1 KB
UserDetailList.cs	2021/04/17 8:44 PM	Visual C# Source F...	2 KB
UserDetails.cs	2021/04/18 5:27 PM	Visual C# Source F...	4 KB
Validation.cs	2021/04/18 5:27 PM	Visual C# Source F...	4 KB













4. Open the “Debug” folder

Name	Date modified	Type	Size
 Debug	2021/04/09 9:51 PM	File folder	

5. Open the “netcoreapp3.1” folder

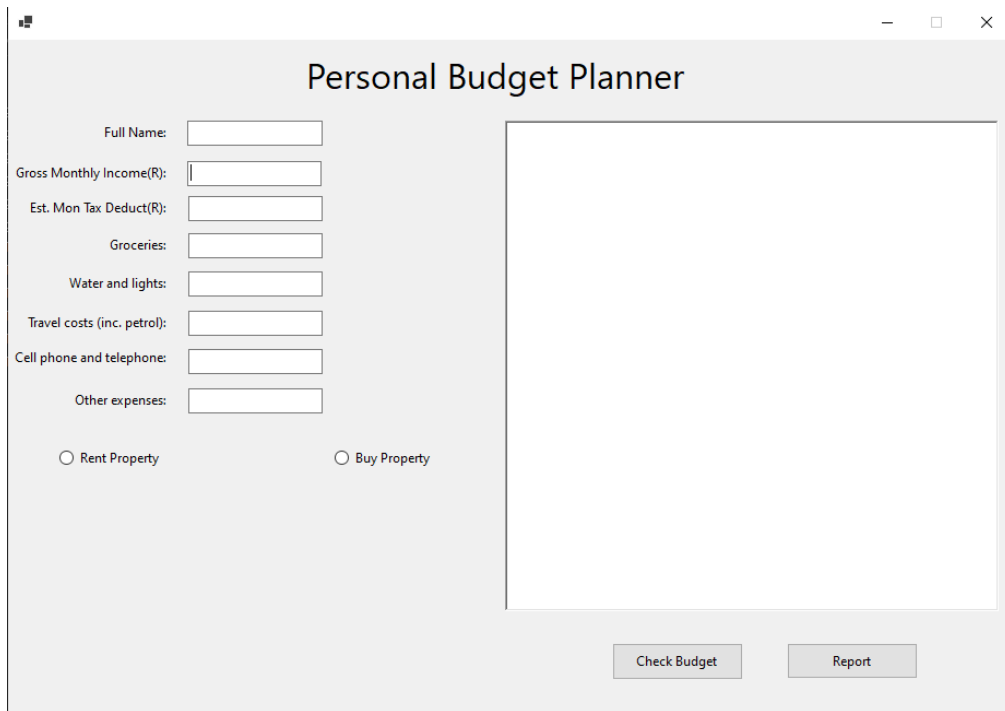
Name	Date modified	Type	Size
 netcoreapp3.1	2021/04/09 9:51 PM	File folder	

6. Open the “BudgetApp” application file

Name	Date modified	Type	Size
 BudgetApp.deps	2021/04/16 10:31 PM	JSON File	1 KB
 BudgetApp.dll	2021/04/18 5:05 PM	Application exten...	27 KB
 BudgetApp	2021/04/18 5:05 PM	Application	171 KB
 BudgetApp.pdb	2021/04/18 5:05 PM	Program Debug D...	19 KB
 BudgetApp.runtimeconfig.dev	2021/04/16 10:31 PM	JSON File	1 KB
 BudgetApp.runtimeconfig	2021/04/16 10:31 PM	JSON File	1 KB
 Ice_Task1.deps	2021/03/19 3:28 PM	JSON File	1 KB
 Ice_Task1.dll	2021/03/19 4:10 PM	Application exten...	7 KB
 Ice_Task1	2021/03/19 4:10 PM	Application	171 KB
 Ice_Task1.pdb	2021/03/19 4:10 PM	Program Debug D...	12 KB
 Ice_Task1.runtimeconfig.dev	2021/03/19 3:28 PM	JSON File	1 KB
 Ice_Task1.runtimeconfig	2021/03/19 3:28 PM	JSON File	1 KB

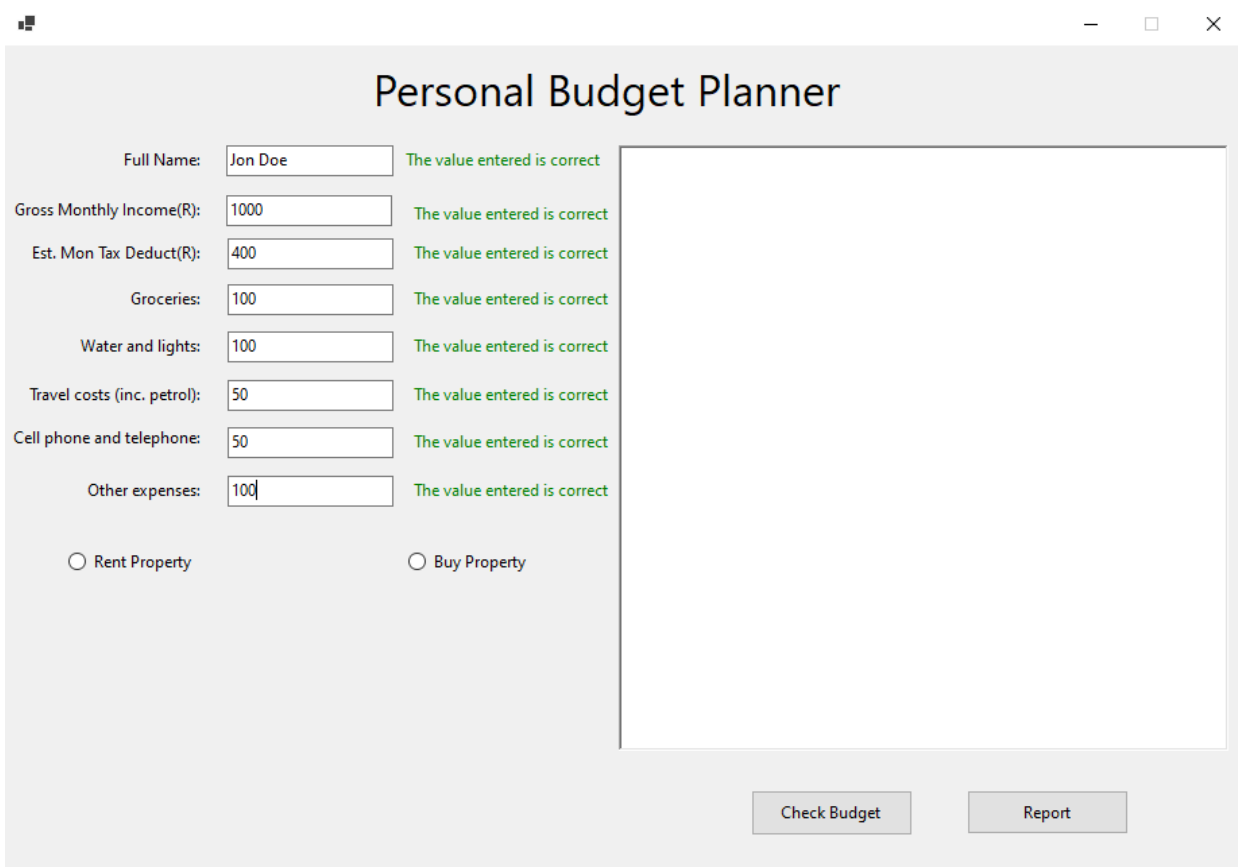
## Application use

When you run the application, this screen will appear



The screenshot shows a window titled "Personal Budget Planner". On the left side, there are several input fields for user data: "Full Name:", "Gross Monthly Income(R):", "Est. Mon Tax Deduct(R):", "Groceries:", "Water and lights:", "Travel costs (inc. petrol):", "Cell phone and telephone:", and "Other expenses:". Below these fields are two radio buttons labeled "Rent Property" and "Buy Property". On the right side, there is a large empty rectangular box. At the bottom right, there are two buttons: "Check Budget" and "Report".

You will need to enter values in all the given fields as such:



The screenshot shows the same "Personal Budget Planner" window, but now with sample data entered in all the input fields. Each field has a green message to its right stating "The value entered is correct". The data entered is: Full Name: Jon Doe, Gross Monthly Income(R): 1000, Est. Mon Tax Deduct(R): 400, Groceries: 100, Water and lights: 100, Travel costs (inc. petrol): 50, Cell phone and telephone: 50, and Other expenses: 100. The "Rent Property" radio button is selected. The "Check Budget" and "Report" buttons are still present at the bottom right.

You will then need to choose between renting or buying and enter the related values as such:

The screenshot shows a window titled "Personal Budget Planner". On the left, there is a list of input fields with their current values and a green confirmation message "The value entered is correct" next to each:

- Full Name: John Doe
- Gross Monthly Income(R): 1000
- Est. Mon Tax Deduct(R): 400
- Groceries: 100
- Water and lights: 100
- Travel costs (inc. petrol): 50
- Cell phone and telephone: 50
- Other expenses: 100

Below these fields, there are two radio buttons: "Rent Property" (which is selected) and "Buy Property". Below the radio buttons is a field for "Monthly rental amount" with the value 200.

On the right side of the window is a large empty rectangular box. At the bottom right, there are two buttons: "Check Budget" and "Report".

The screenshot shows the same "Personal Budget Planner" window, but with the "Buy Property" radio button selected. The input fields and their values remain the same as in the previous screenshot:

- Full Name: John Doe
- Gross Monthly Income(R): 1000
- Est. Mon Tax Deduct(R): 400
- Groceries: 100
- Water and lights: 100
- Travel costs (inc. petrol): 50
- Cell phone and telephone: 50
- Other expenses: 100

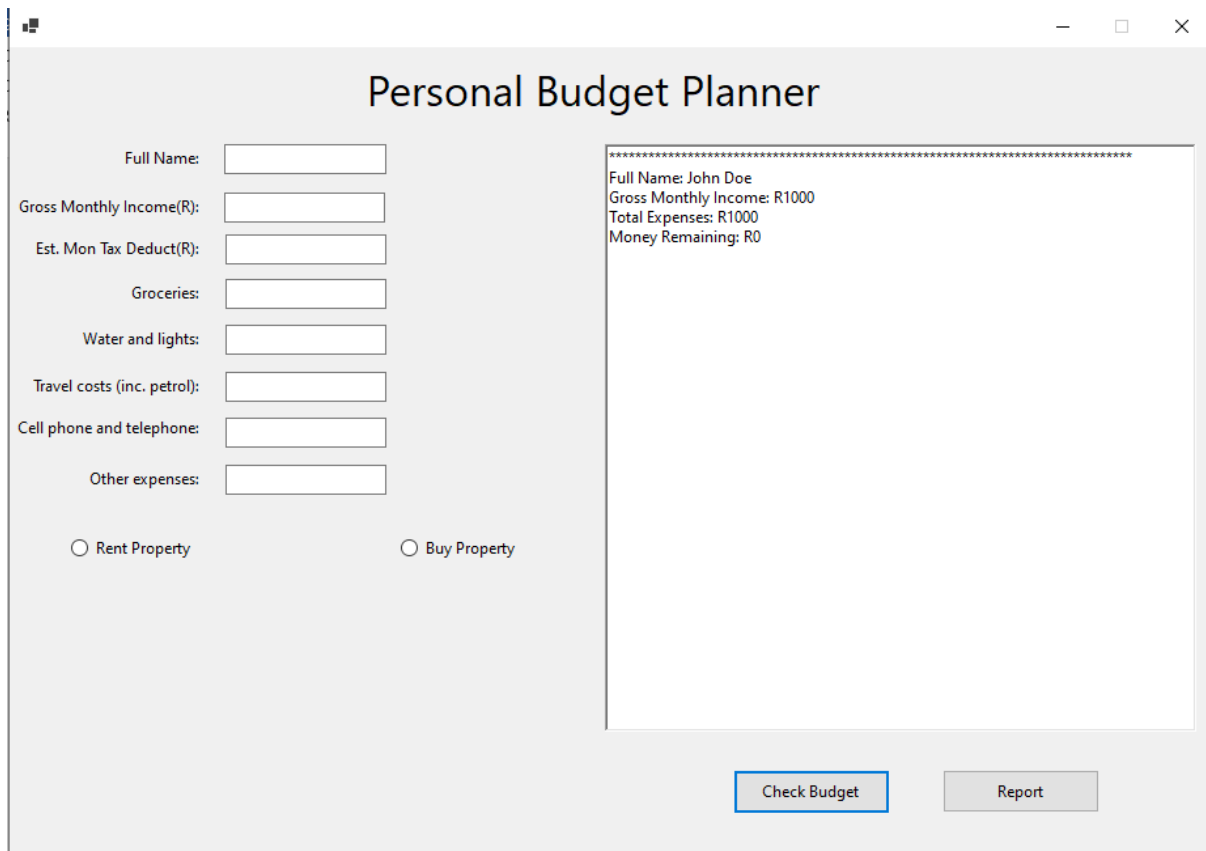
Below these fields, the "Buy Property" radio button is now selected, and the "Rent Property" button is unselected. Below the radio buttons, there are four new input fields:

- PropertyPrice: 5000
- Total Deposit: 0
- InterestRate(%): 4,00 (with a spinner control)
- Months to repay: 240 (with a spinner control)

Each of these new fields also has a green confirmation message "The value entered is correct" next to it. The large empty box on the right and the "Check Budget" and "Report" buttons at the bottom remain the same.



Then click the “Check Budget” button and an output such as the following will be displayed:



The screenshot shows a web application titled "Personal Budget Planner". On the left, there are input fields for "Full Name:", "Gross Monthly Income(R):", "Est. Mon Tax Deduct(R):", "Groceries:", "Water and lights:", "Travel costs (inc. petrol):", "Cell phone and telephone:", and "Other expenses:". Below these fields are two radio buttons: "Rent Property" and "Buy Property". On the right, there is a text area displaying the calculated results: "Full Name: John Doe", "Gross Monthly Income: R1000", "Total Expenses: R1000", and "Money Remaining: R0". At the bottom right, there are two buttons: "Check Budget" (highlighted with a blue border) and "Report".

After entering multiple budgets, you can click the “Report button” and it will display all budgets that have been calculated

## Support

For support, please contact [20108381@vcconnect.co.za](mailto:20108381@vcconnect.co.za)