

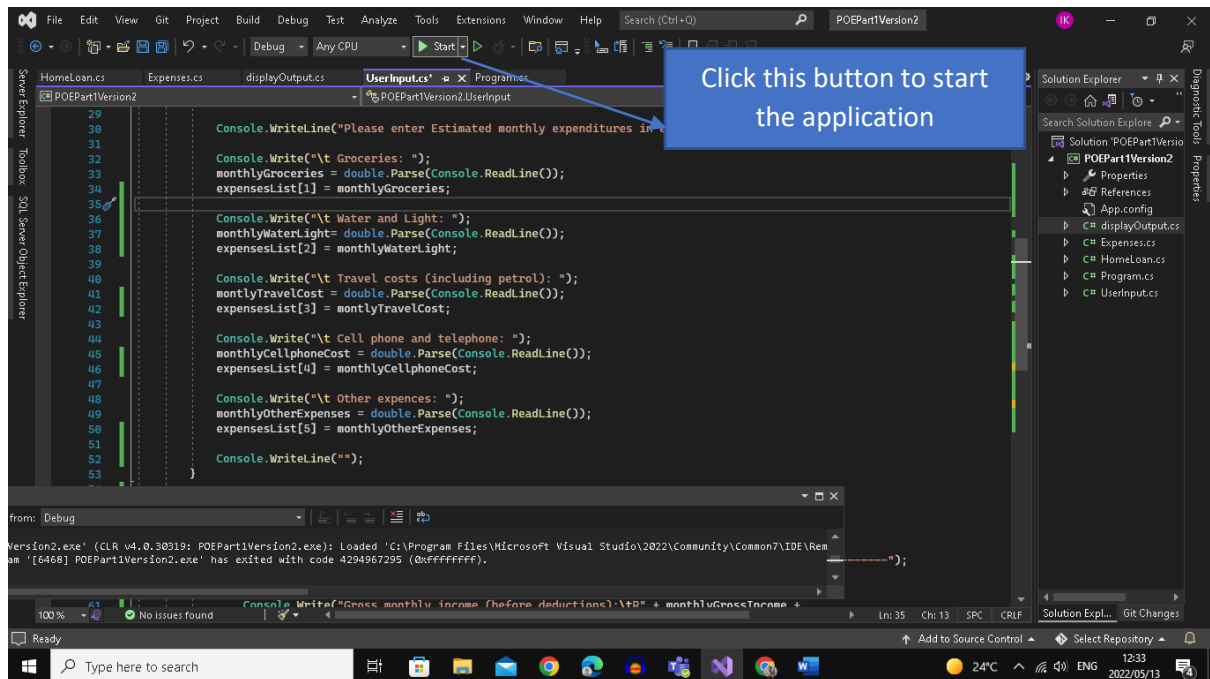
The Personal Budgeting Application

Application description

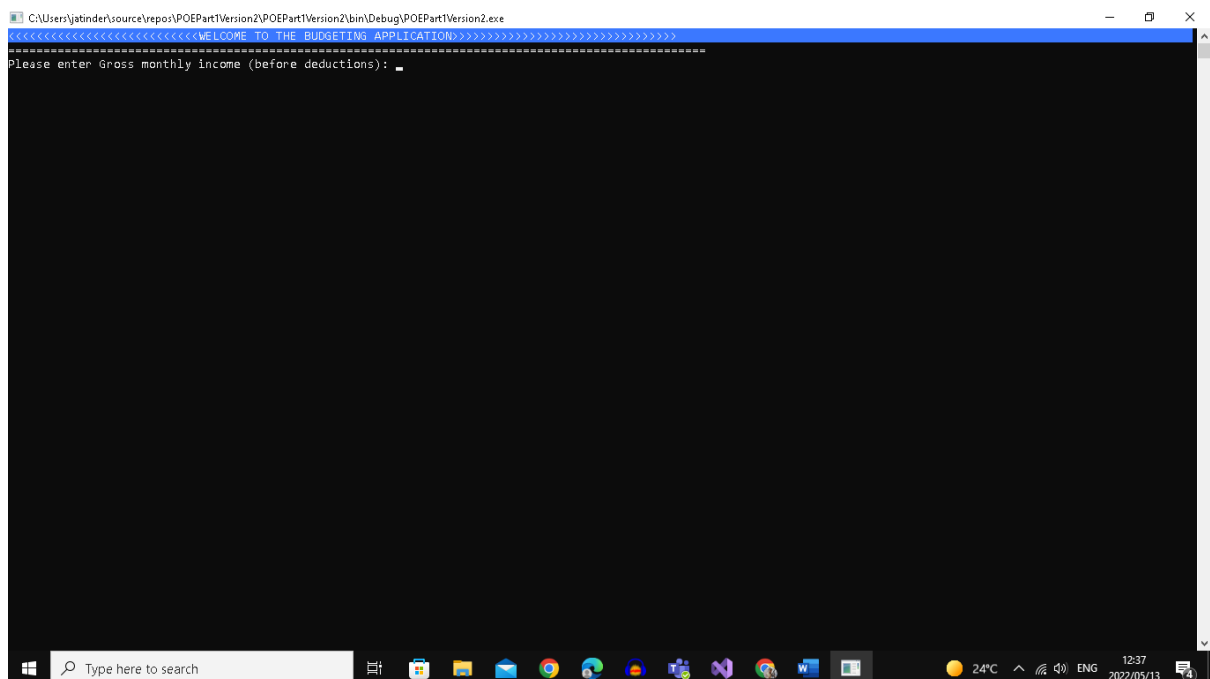
The application will ask for the user input the monthly gross income, monthly tax deducted and monthly expenditures cost. The application will allow user to make a choice between renting accommodation or buying a property, if a user chooses renting accommodation the application will ask user to input monthly rent amount or if a user selects to buy a property the application will ask user to input the following values (purchase price of property, total deposit, interest rate(percentage), number of months to repay (between 240 and 360)) and based on the user input the application will calculate the monthly home loan repayment (if the monthly repayment is more than third of the user's monthly gross income the application will alert user that approval of home loan is unlikely) and will calculate the monthly available money.

How to use the Application

Step 1: The user will execute the application by clicking at the start button at the top bar of the of the page as shown bellow in the screenshot.



After clicking the start button the user will see something like this on the screen as shown below



Step 2: Once the application start running it will ask user to input the gross income, monthly tax deducted and monthly expenditures (groceries, water and light, travel cost (including petrol), cell phone and telephone, other expenditures), once the user enter all these values it will display the input values and will also display the amount of total expenses as shown below.

[illegible]

```
C:\Users\jatin\Desktop\source\repos\POEPart1\Version2\bin\Debug\POEPart1\Version2.exe  
#####  
WELCOME TO THE BUDGETING APPLICATION.  
#####  
Please enter Gross monthly income (before deductions): 15000  
Please enter Estimated monthly tax deducted: 1000  
Please enter Estimated monthly expenditures in each of the following categories:  
Groceries: 1000  
Water and Light: 1000  
Travel costs (including petrol): 1800  
Cell phone and telephone: 1000  
Other expenses: 1000  
-----  
Gross monthly income (before deductions): R15000  
Estimated monthly tax deducted: R1000  
Estimated monthly expenditures:  
1. Groceries: R1000  
2. Water and lights: R1000  
3. Travel costs (including petrol): R1800  
4. Cell phone and telephone: R1000  
5. Other expenses: R1000  
TOTAL EXPENSES: R6000  
-----  
Do you want to rent accomodation or buy a property?  
(Please type (1) for renting accomodation or (2) for buying a property)  
1. Renting accomodation  
2. Buying a property  
YOUR CHOICE IS:
```

User input his/her choice here (type 1 if you want to rent accomodation or type 2 if you want to buy a property)

C:\Users\jatinder\source\repos\POEPart\VersionZ\POEPart\VersionZ\bin\Debug\POEPart\VersionZ.exe

WELCOME TO THE BUDGETING APPLICATION.

Please enter Gross monthly income (before deductions): 15000

Please enter Estimated monthly tax deducted: 1000

Please enter Estimated monthly expenditures in each of the following categories:

- Groceries: 1000
- Water and Light: 1000
- Travel costs (including petrol): 1000
- Cell phone and telephone: 1000
- Other expenses: 1000

Gross monthly income (before deductions): R15000

Estimated monthly tax deducted: R1000

Estimated monthly expenditures:

- 1. Groceries: R1000
- 2. Water and lights: R1000
- 3. Travel costs (including petrol): R1000
- 4. Cell phone and telephone: R1000
- 5. Other expenses: R1000

TOTAL EXPENSES: R6000

Do you want to rent accomodation or buy a property?
(Please type (1) for renting accomodation or (2) for buying a property)

- 1. Renting accomodation
- 2. Buying a property

YOUR CHOICE IS: 3

Do you want to rent accomodation or buy a property?
(Please type (1) for renting accomodation or (2) for buying a property)

- 1. Renting accomodation
- 2. Buying a property

YOUR CHOICE IS: _

Inputs a wrong choice

Asks again to make a choice if the choice is not 1 or 2

Step 4 If a user input “1” (renting accommodation) the application will ask user to enter their monthly rent amount and then the application calculate and display the available monthly money as shown below.

```

C:\Users\jatinder\source\repos\POEPart1Version2\POEPart1Version2\bin\Debug\POEPart1Version2.exe
Estimated monthly expenditures:
1. Groceries: R1000
2. Water and lights: R1000
3. Travel costs (including petrol): R1000
4. Cell phone and telephone: R1000
5. Other expenses: R1000
TOTAL EXPENSES: R6000
-----
Do you want to rent accomodation or buy a property?
(Please type (1) for renting accomodation or (2) for buying a property)
1. Renting accomodation
2. Buying a property
YOUR CHOICE IS: 1
Do you want to rent accomodation or buy a property?
(Please type (1) for renting accomodation or (2) for buying a property)
1. Renting accomodation
2. Buying a property
YOUR CHOICE IS: 1
Please enter the Monthly rental amount: 5000
-----
Calculating Available Monthly Money . . .
Available monthly money after all the specified deductions have been made: R4 000,00
-----
Do you want to use the app again?
(please enter 1 to resume or any other key to close the app)
1

```

If a user input “2” (Buy a property) the application will ask user to input the values for a home loan (Purchase price of the property, Total deposit, Interest rate(percentage), number of months to repay (between 240 and 360)).

```

C:\Users\jatinder\source\repos\POEPart1Version2\POEPart1Version2\bin\Debug\POEPart1Version2.exe
Cell phone and telephone: 1000
Other expenses: 1000
-----
Gross monthly income (before deductions): R15000
Estimated monthly tax deducted: R1000
Estimated monthly expenditures:
1. Groceries: R1000
2. Water and lights: R1000
3. Travel costs (including petrol): R1000
4. Cell phone and telephone: R1000
5. Other expenses: R1000
TOTAL EXPENSES: R6000
-----
Do you want to rent accomodation or buy a property?
(Please type (1) for renting accomodation or (2) for buying a property)
1. Renting accomodation
2. Buying a property
YOUR CHOICE IS: 2
Please Enter the following values for a home loan
Please enter the Purchase price of property:10000
Please enter the Total deposit:10000
Please enter the Interest rate (percentage):10
Number of months to repay (between 240 and 360):

```

If a user did not input the number of months to repay between 240 and 360 the application will again ask user to input the number of months to repay as show below.

```

C:\Users\jatinder\source\repos\POEPart1Version2\POEPart1Version2\bin\Debug\POEPart1Version2.exe
Cell phone and telephone: 1000
Other expenses: 1000
-----
Gross monthly income (before deductions): R15000
Estimated monthly tax deducted: R1000
Estimated monthly expenditures:
1. Groceries: R1000
2. Water and lights: R1000
3. Travel costs (including petrol): R1000
4. Cell phone and telephone: R1000
5. Other expenses: R1000
TOTAL EXPENSES: R6000
-----
Do you want to rent accomodation or buy a property?
(Please type (1) for renting accomodation or (2) for buying a property)
1. Renting accomodation
2. Buying a property
YOUR CHOICE IS: 2
-----
Please Enter the following values for a home loan
Please enter the Purchase price of property:10000
Please enter the Total deposit:10000
Please enter the Interest rate (percentage):10
Number of months to repay (between 240 and 360): 233
Number of months to repay (between 240 and 360):
  
```

Did not input the value between 240 and 360 that's why the application ask again to input the value for month to repay

Asks again to input the value for month to repay

After inputting the home loan values the app will display all the home loan values. The application will also calculate and display monthly home loan repayment and also display if the approval of home loan is likely or unlikely and available monthly money after all the specified deductions have been made a

```

YOUR CHOICE IS: 2
-----
Please Enter the following values for a home loan
Please enter the Purchase price of property:10000
Please enter the Total deposit:10000
Please enter the Interest rate (percentage):10
Number of months to repay (between 240 and 360): 233
Number of months to repay (between 240 and 360): 244
-----
Values of a Home Loan are:
a. Purchase Price of the Property: 100000
b. Total Deposit: 10000
c. Interest rate (percentage): 10
d. Number of months to repay(Between 240 and 360): 244
-----
Calculating Monthly Home Loan Repayment. . .
Monthly home loan repayment for buying a property: R864.06
Approval of the home loan is likely
-----
Calculating Available Monthly Money . . .
Available monthly money after all the specified deductions have been made: R8 135.94
-----
Do you want to use the app again?
(please enter 1 to resume or any other key to close the app)
  
```

Displays the home loan values in a formatted way.

Calculate and displays the monthly Repayment

Display if the approval of home loan is likely or not depending on the home loan values and the monthly gross income

Calculate and Displays the available monthly

Step 5: The application will ask the user if they want to resume the application or not (to resume the application the user must enter 1 or any other key to close the app) as shown below.

```
C:\Users\jatinder\source\repos\POEPart1Version2\POEPart1Version2\bin\Debug\POEPart1Version2.exe
YOUR CHOICE IS: 2
-----
Please Enter the following values for a home loan
Please enter the Purchase price of property:100000
Please enter the Total deposit:10000
Please enter the Interest rate (percentage):10
Number of months to repay (between 240 and 360): 233
Number of months to repay (between 240 and 360): 244
-----
Values of a Home Loan are:
a. Purchase Price of the Property:      100000
b. Total Deposit:                        10000
c. Interest rate (percentage):          10
d. Number of months to repay(Between 240 and 360): 244
Calculating Monthly Home Loan Repayment. . .
Monthly home loan repayment for buying a property: R864,06
Approval of the home loan is likely
Calculating Available Monthly Money . . .
Available monthly money after all the specified deductions have been made: R8 135,04
-----
Do you want to use the app again?
(please enter 1 to resume or any other key to close the app)
```

Asks user if they want to use the app again or not

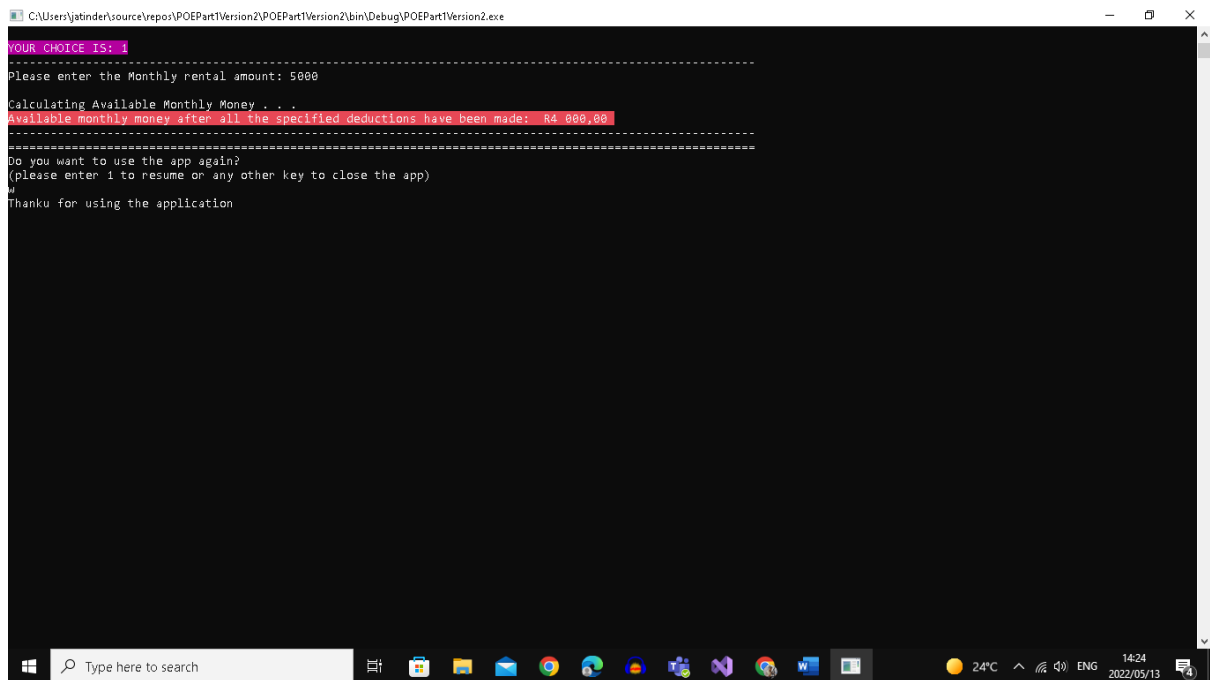
If user enter “1” the application resume and the user would be able use the app again to do the next calculations as shown below:

```
C:\Users\jatinder\source\repos\POEPart1Version2\POEPart1Version2\bin\Debug\POEPart1Version2.exe
Please enter the Monthly rental amount: 5000
-----
Calculating Available Monthly Money . . .
Available monthly money after all the specified deductions have been made: R4 000,00
-----
Do you want to use the app again?
(please enter 1 to resume or any other key to close the app)
1
=====WELCOME TO THE BUDGETING APPLICATION=====
Please enter Gross monthly income (before deductions):
```

If user inputs 1 the application gets restart

The application resume to do the next calculations

If the user inputs other key the message will display and will close the application as shown below:



```
C:\Users\jatinder\source\repos\POEPart1Version2\POEPart1Version2\bin\Debug\POEPart1Version2.exe
YOUR CHOICE IS: 1
-----
Please enter the Monthly rental amount: 5000
Calculating Available Monthly Money . . .
Available monthly money after all the specified deductions have been made: R4 000.00
-----
Do you want to use the app again?
(please enter 1 to resume or any other key to close the app)
w
Thanku for using the application
```