ASSINGMENT 02

GUI DESIGN TASK

EC 2010 - COMPUTER PROGRAMINNG

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GROUP A

SEMESTER 2

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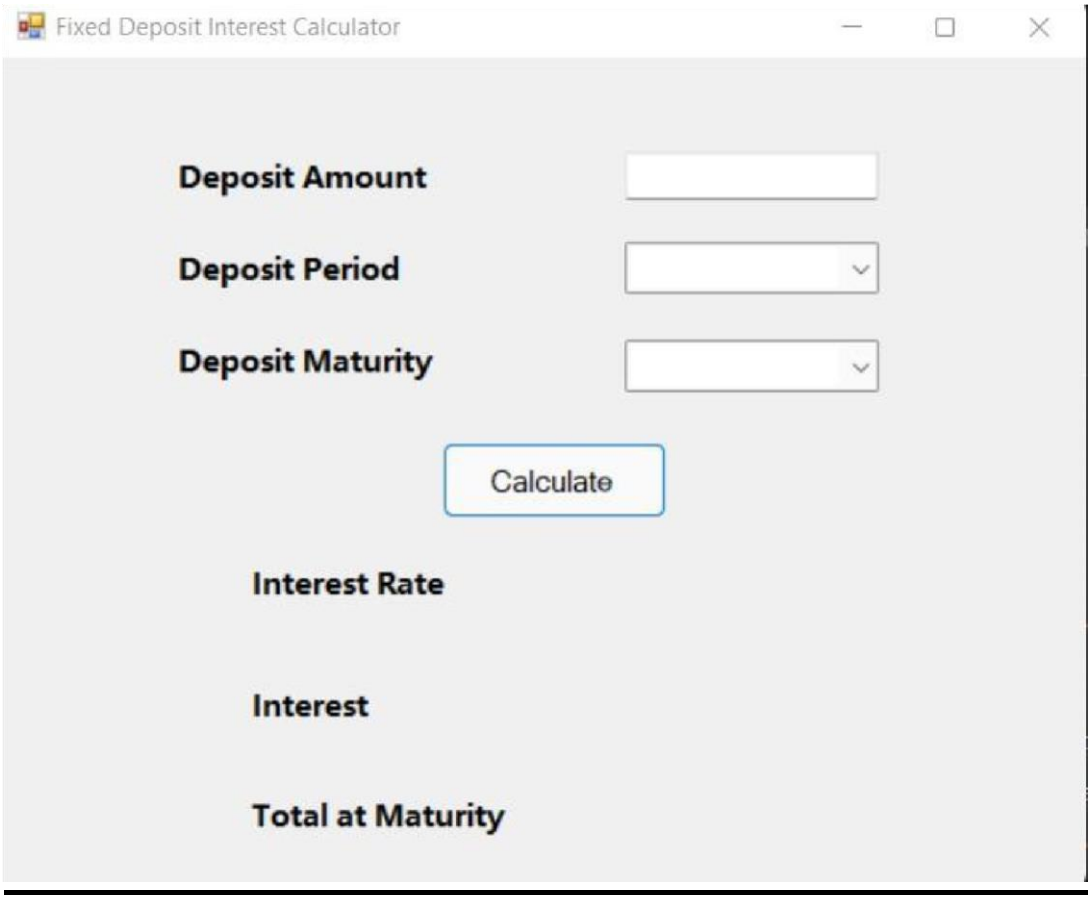
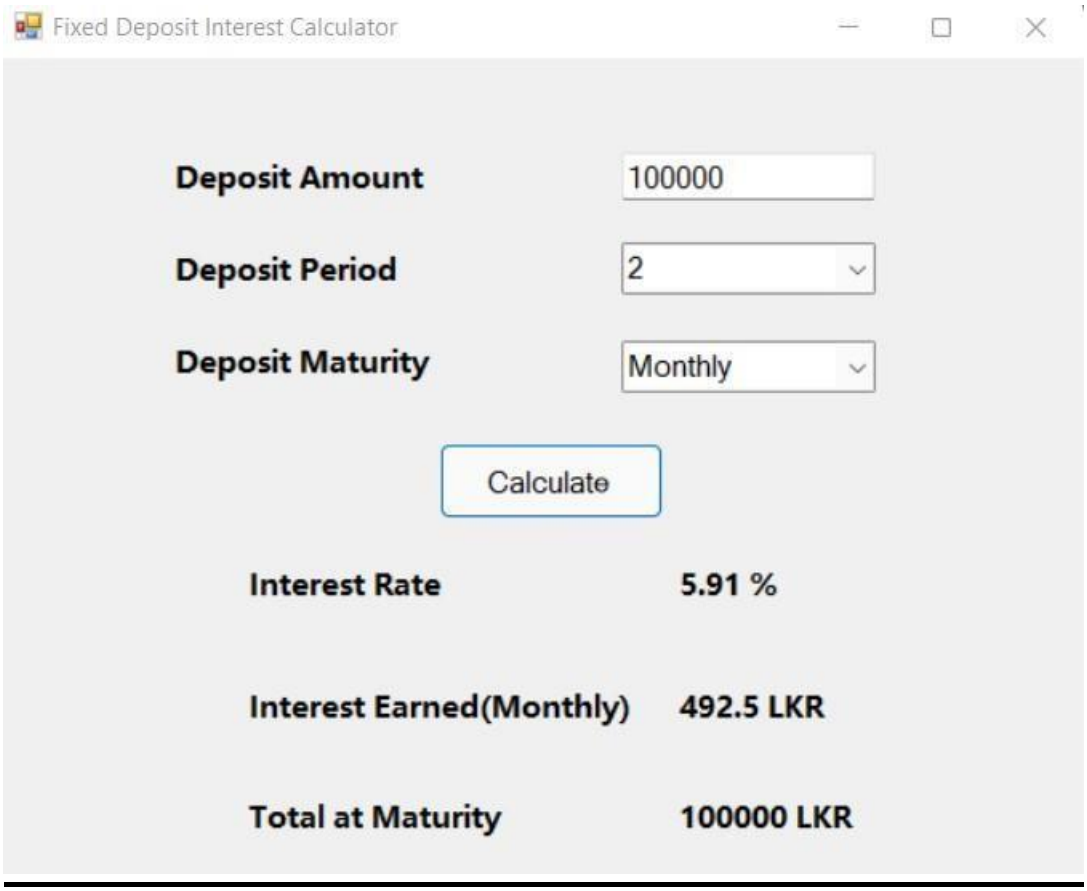
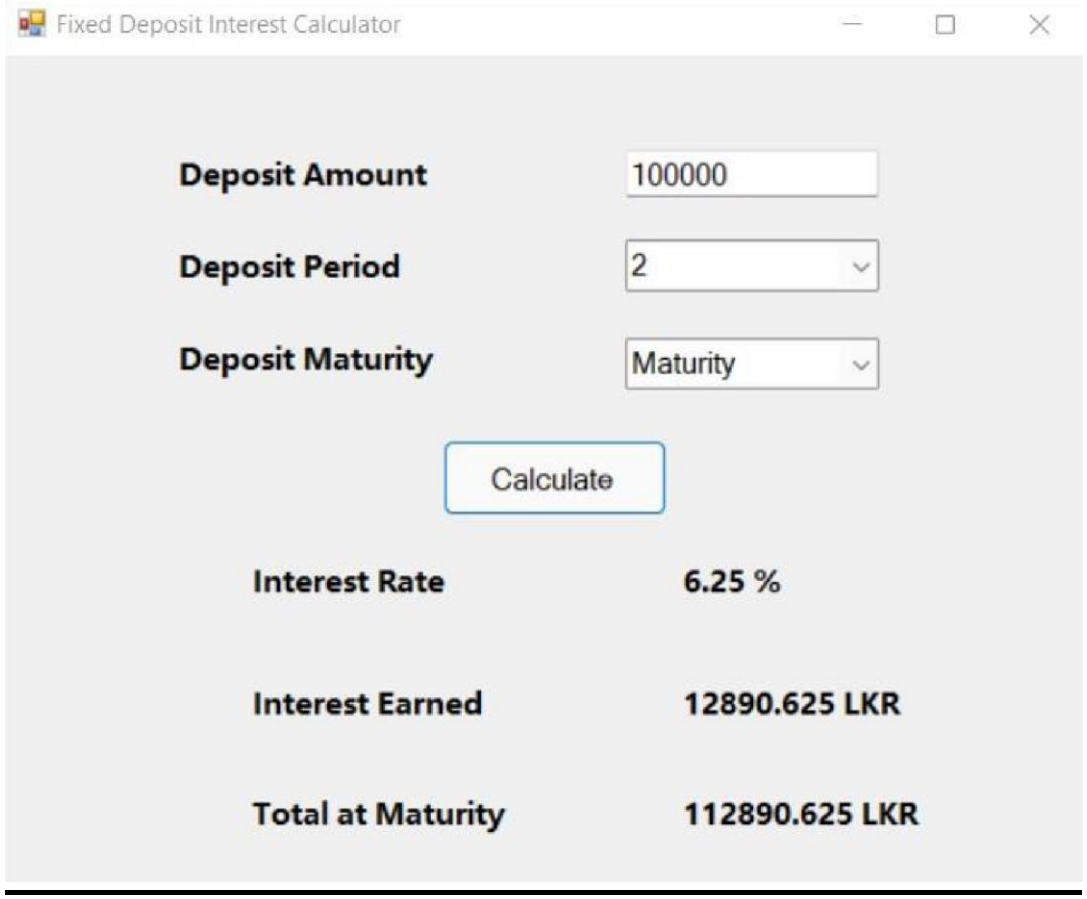
GUI SCREEN


Fixed Deposit Interest Calculator
Deposit Amount
Deposit Period
Deposit Maturity
Calculate
Interest Rate
Interest
Total at Maturity


Fixed Deposit Interest Calculator
Deposit Amount
100000
Deposit Period
2
Deposit Maturity
Monthly
Calculate
Interest Rate
5.91 %
Interest Earned(Monthly)
492.5 LKR
Total at Maturity
100000 LKR


Fixed Deposit Interest Calculator
Deposit Amount
100000
Deposit Period
2
Deposit Maturity
Maturity
Calculate
Interest Rate
6.25 %
Interest Earned
12890.625 LKR
Total at Maturity
112890.625 LKR

CODE FOR GUI TASK 02

```
private: double Maturity(int period, double deposit){
            double intrestRates[5] = { 5.5, 6.25, 7, 7.5, 8 };              int i = 0 ;
double intrestRate = 0;
               while (true)
            {
                        if (i == period) {                              intrestRate =
intrestRates[i];
                                    break;
                        }
                         ++i;
            }
            double powerValue = 1;      for (int i = 0; i <=
period; ++i)
            {
                                powerValue *= ((intrestRate / 100)+1);
            }
            double compoundInterest = deposit * (powerValue - 1);              return
compoundInterest;
}
private: double Monthly(int period, double deposit) {     double intrestRates[5] = {5.4,
5.91, 6.37,6.58, 6.75};         double compoundInterest = 0;
                        for (int i = 1; i <= period; ++i)
            {
                              if (i == period) {
                                                compoundInterest = (intrestRates[i] / 100) * deposit;
                                    break;
                        }
            }
                  return compoundInterest/12;
}
private: void Function(int period, double deposit, int maturity) {   double intrestRatesMaturity[5] = { 5.5,
6.25, 7, 7.5, 8 };
            double intrestRatesMonthly[5] = { 5.4, 5.91, 6.37,6.58, 6.75 };      switch (maturity)
            {
              case 0:
                        this->label5->Text = "Interest Earned(Monthly)";
                        this->label7->Text = Convert::ToString(intrestRatesMonthly[period] + "
%");
                        this->label8->Text = Convert::ToString(Monthly(period, deposit) + "
LKR");
                        this->label9->Text = Convert::ToString(deposit + " LKR");
                        break;
              case 1:
                                    this->label5->Text = "Interest Earned";
                        this->label7->Text = Convert::ToString(intrestRatesMaturity[period] + "
%");
```

```
                    this->label8->Text = Convert::ToString(Maturity(period, deposit) + "
LKR");
                    this->label9->Text = Convert::ToString(deposit + Maturity(period,
deposit) + " LKR");
            break;
             }
}
private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {          String^ Deposit = this-
>textBox1->Text;   double deposit = Convert::ToDouble(Deposit);          int period = this->comboBox1->SelectedIndex;
int maturity = this->comboBox2->SelectedIndex;
                    Function(period, deposit, maturity);
                                                                    }
```