```
Input
#include <stdio.h>
float calculateIncomeBeforeTaxes(float hoursWorked);
float calculateIncomeAfterTaxes(float incomeBeforeTaxes);
float calculateClothesExpenses(float incomeAfterTaxes);
float calculateSchoolExpenses(float incomeAfterTaxes);
float calculateBonds(float incomeAfterTaxes);
float calculateParentsBonds(float savingsBonds);
int main() {
      float hoursWorked;
      printf("Enter the number of hours you worked each week: ");
      scanf("%f", &hoursWorked);
      float incomeBeforeTaxes = calculateIncomeBeforeTaxes(hoursWorked);
      float incomeAfterTaxes = calculateIncomeAfterTaxes(incomeBeforeTaxes);
      float clothesExpenses = calculateClothesExpenses(incomeAfterTaxes);
      float schoolExpenses = calculateSchoolExpenses(incomeAfterTaxes);
      float savingsBonds = calculateBonds(incomeAfterTaxes);
      float parentsBonds = calculateParentsSavingsBonds(savingsBonds);
      printf("income before taxes: $%.2f\n", incomeBeforeTaxes);
      printf("income after taxes: $%.2f\n", incomeAfterTaxes);
      printf("money spent on clothes and accessories: $%.2f\n", clothesExpenses);
      printf("money spent on school supplies: $%.2f\n", schoolExpenses);
      printf("money spent on savings bonds: $%.2f\n", savingsBonds);
      printf("money your parents spent on additional savings bonds for you: $%.2f\n",
parentsBonds);
      return 0;
float calculateIncomeBeforeTaxes(float hoursWorked) {
      float pay = 15.50;
      return hoursWorked * pay * 5;
}
float calculateIncomeAfterTaxes(float incomeBeforeTaxes) {
      float tax = 0.14;
      return incomeBeforeTaxes * (1 - tax);
}
```

Problem no: 1

```
float calculateClothesExpenses(float incomeAfterTaxes) {
      float clothes = 0.10;
      return incomeAfterTaxes * clothes;
}
float calculateSchoolExpenses(float incomeAfterTaxes) {
      float school = 0.01;
      return incomeAfterTaxes * school;
}
float calculateBonds(float incomeAfterTaxes) {
      float savings = 0.25;
      return incomeAfterTaxes * savings;
float calculateParentsBonds(float savingsBonds) {
      float parent = 0.50;
      return savingsBonds * parent;
}
Output
  Enter the number of hours you worked each week: 35
  Income before taxes: $2712.50
  Income after taxes: $2332.75
  Money spent on clothes and accessories: $233.28
  Money spent on school supplies: $23.33
  Money spent on savings bonds: $583.19
Money your parents spent on additional savings bonds for you: $291.59
  taha@taha-Latitude-7280:~/Desktop$
Problem no: 2
Input
#include <stdio.h>
float calculateAverageDailyBalance(float netBalance, float payment, int d1, int d2);
float calculateInterest(float averageDailyBalance, float monthlyInterestRate);
int main() {
```

float netBalance = 12000; float payment = 8000;

int d1 = 30;

```
int d2 = 15:
       double monthlyInterestRate = 0.02;
       float averageDailyBalance = calculateAverageDailyBalance(netBalance, payment,
d1, d2);
       double interest = calculateInterest(averageDailyBalance, monthlyInterestRate);
       printf("Average Daily Balance: $%f\n", averageDailyBalance);
       printf("Interest: $%f\n", interest);
       return 0;
float calculateAverageDailyBalance(float netBalance, float payment, int d1, int d2) {
       return (netBalance * d1 - payment * d2) / d1;
}
float calculateInterest(float averageDailyBalance, float monthlyInterestRate) {
       double interest;
       if (averageDailyBalance > 10000) {
       interest = averageDailyBalance * 1.5 * monthlyInterestRate;
       } else {
       interest = averageDailyBalance * 0.75 * monthlyInterestRate;
       }
       return interest;
}
```

Output

```
Money your parents spent on additional savings bonds for you: $291.59

taha@taha-Latitude-7280:~/Desktop$ gcc task2.c -lm

taha@taha-Latitude-7280:~/Desktop$ ./a.out

Average Daily Balance: $8000.000000

Interest: $120.000000

taha@taha-Latitude-7280:~/Desktop$
```