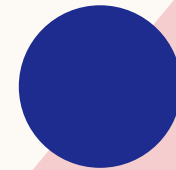


INSURANCE POLICY SYSTEM

BY GROUP - F

INTRODUCTION

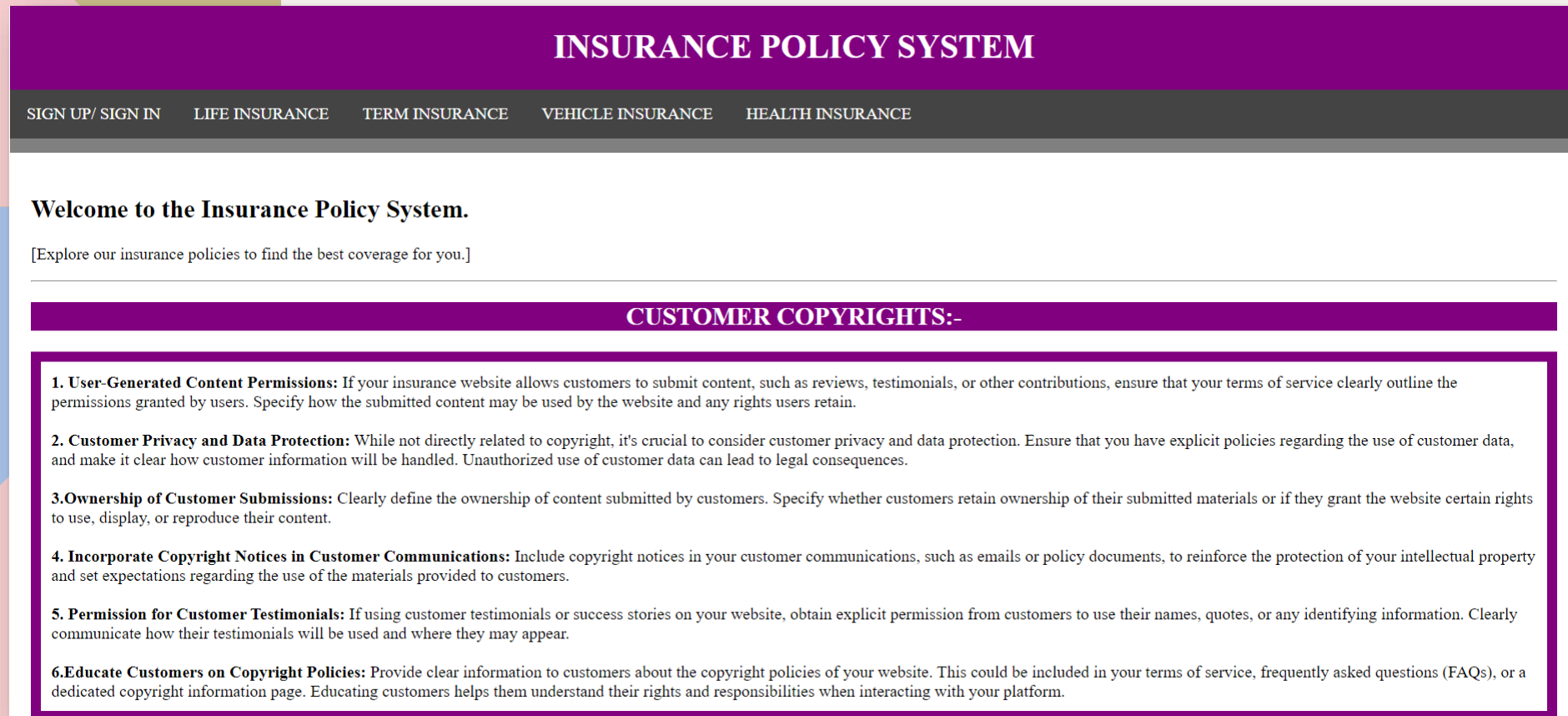
We own an insurance company so we made a software for the insurance policy system. The insurance policy system is used for the online system of all types of insurance policies.



FRONT END

[MAIN PAGE]

1. On the top of the page, we have written the name of our project.
2. In the Navigation Bar, we have given 5 options .
3. To fill the customer details you should go to sign up (if you are new) or sign in (if you have already registered yourself) then you will be directed to the sign in or sign up section present within the home page.
4. To go to different policies you should chose the required field from life insurance, term insurance, vehicle insurance, health insurance.
5. Before filling any form or choosing any policy, you should be aware about the customer copyrights.



LIFE INSURANCE

LIFE INSURANCE

[Life is a contract between an insurance policyholder and an insurer or assurer, where the insurer promises to pay a designated beneficiary a sum of money (the benefit) in exchange for a premium, upon the death of an insured person (often the policyholder)]

1. Add all required details of Customers/1st Nominee/2nd Nominee.
2. Life policies depend upon the investment of a year e.g. Rs 1000 per year investment will insure life for Rs 1 million till 30 years, like after death his/her family will get RS 1 million. The policy holds for 30 years with no break. If everything goes well, then after 30 years, the person will receive Rs 5,00,000 (half of the total insured amount). Similarly, on investment of Rs 2000 per year, Rs 2 million will return and Rs 1 million after 30 years.
3. No break-in policy.
4. Penalty Rs 100 for one time for late submission of instalment.
5. If the instalment is divided monthly then Rs 10 is a penalty for late submission.

PROCEED

1. We have defined some lines about LIFE insurance.
2. Then we have defined the steps to be followed by the customer while filling the form and to understand the policy clearly.
3. In the end, we have given the “PROCEED” button to proceed to the code.

TERM INSURANCE

TERM INSURANCE

[It will be used for Saving and return purposes]

1. Add all required details of Customer/Nominee.
2. Term plan will start from any amount of investment and invested money will lock in a minimum of 5 years.
3. The rate of interest (compound interest) for the invested amount at the end of the year will be 10% for the first 5 years, then 15% for 5-10 years, 20% for 10-20 years, 25 % for 20 years onward.
4. If money is withdrawn before 5-year penalty 5% of the total amount will be charged, 2.5% if before 10 years, no charge after 10 years.
5. At the end of year submit the report of the balance sheet.

PROCEED

1. We have defined some lines about TERM insurance.
2. Then we have defined the steps to be followed by the customer while filling the form and to understand the policy clearly.
3. In the end, we have given the “PROCEED” button to proceed to the code.

VEHICLE INSURANCE

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VEHICLE INSURANCE

[Vehicle insurance would typically cover both the property risk (theft or damage to the vehicle) and the liability risk (legal claims arising from an accident). Vehicle insurance is insurance purchased for cars, trucks, motorcycles, and other road vehicles.]

1. Fixed amount of Rs 1500 for two-wheeler and Rs 3000 for 4- wheeler i.e. per year.

2. 5% of the amount of vehicle which insured total vehicle damaged.

Each year 20% depreciation in the amount of Vehicle. For all types of vehicles

PROCEED

1. We have defined some lines about VEHICLE insurance.
2. Then we have defined the steps to be followed by the customer to fill the form and to understand the policy clearly.
3. In the end, we have given the “proceed” button to proceed to the code.

VEHICLE INSURANCE

[Vehicle insurance would typically cover both the property risk (theft or damage to the vehicle) and the liability risk (legal claims arising from an accident). Vehicle insurance is insurance purchased for cars, trucks, motorcycles, and other road vehicles.]

1. Fixed amount of Rs 1500 for two-wheeler and Rs 3000 for 4- wheeler i.e. per year.

2. 5% of the amount of vehicle which insured total vehicle damaged.

Each year 20% depreciation in the amount of Vehicle. For all types of vehicles

PROCEED

1. In Health insurance tab, we have written some lines about HEALTH insurance.
2. Then we have defined the structure of policy.
3. In the end we have given a button “PROCEED” to continue the code.

1. LIFE INSURANCE

INPUT-

```
1 #include <stdio.h>
2
3 // Customer details structure
4 struct Customer {
5     char name[50];
6     char address[100];
7     int age;
8     long int phoneNo;
9 };
10
11 // Nominee details structure
12 struct Nominee {
13     char name[50];
14     char relationship[20];
15     int age;
16 };
17
18 // Main function
19 int main() {
20     printf("\n\t\t\t\t\t*****\n");
21     printf("\033[1m"); // Start bold text
22     printf("\t\t\t\t\tLIFE INSURANCE \n");
23     printf("\033[0m"); // Reset text formatting
24     printf("\t\t\t\t\t*****\n");
25     // Customer details
26     struct Customer customer;
27
28     printf("Enter customer name: ");
29     scanf("%s", customer.name);
30
31     printf("Enter customer address: ");
32     scanf("%s", customer.address);
33
34     printf("Enter customer age: ");
35     scanf("%d", &customer.age);
36
37     printf("Enter customer phone number: ");
38     scanf("%ld", &customer.phoneNo);
39 }
```

SUMMARY -

1. Structures including customer and nominee details.
2. Main function starts.
3. Prints some customer and nominee details and takes some output (we used conditional operators for printing nominee 1 and 2 details).
4. In investment amount section, we used for loop inside if-else loop.
5. In penalty section, we used if-else loop.
6. Then, we printed full customer details and balance sheet.

1. LIFE INSURANCE

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OUTPUT-

```
*****
LIFE INSURANCE
*****

Enter customer name: Mahesh
Enter customer address: delhi
Enter customer age: 32
Enter customer phone number: 1234

Enter details for nominee 1:
Name: pooja
Relationship: mother
Age: 70

Enter details for nominee 2:
Name: meena
Relationship: wife
Age: 30

Enter annual investment amount: 15000
Insurance amount = 15000000

Enter installment frequency (1 for annual, 2 for monthly): 2

Customer Details:
Name: Mahesh
Address: delhi
Age: 32
Phone Number: 1234

Nominee 1:
Name: pooja
Relationship: mother
Age: 70

Nominee 2:
Name: meena
Relationship: wife
Age: 30
```

SUMMARY -

1. Firstly, we took details of customer.
2. Then, we took details of nominee 1 and nominee 2.
3. Then we asked for the amount they want to invest annually.
4. Then, we asked their type for installment frequency.
5. Then, we printed all the details we took about customer and nominees.
6. In the end, we displayed the reminder to the customer.

2.TERM INSURANCE

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INPUT-

```
#include <stdio.h>

// Define structure to store term policy and customer details
struct CustomertermPolicy {
    // struct Customer customer;
    char customername[50];
    int customerage;
    long int customerphonenumber[10];
    char customeraddress[120];
    float investedAmount;
    int yearsInvested;
};

// Function to calculate compound interest based on policy rules
float calculateInterest(float amount, int years)
{
    float rate;

    if (years <= 5) {
        rate = 0.10;
    }
    else if (years <= 10) {
        rate = 0.15;
    }
    else if (years <= 20) {
        rate = 0.20;
    }
    else {
        rate = 0.25;
    }

    // Compound interest formula
    float CI = amount * rate;
    return CI;
}

int main() {
    if (main()) {
```

SUMMARY-

1. Structure containing customer details and invested amount and years is written.
2. CalculateInterest function is declared, defined and called.
3. This function is a recursion function type.
4. Main function starts.
5. Input of customer and insurance details are taken.
6. CalculateInterest function is called that has parameters – policy.investedamount, policy.yearsinvested.
7. If- else loop is used for determining the penalty type.
8. Balance sheet is written in code.

2. TERM INSURANCE

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OUTPUT-

```
*****
      TERM INSURANCE
*****

Enter customer name: mahesh
Enter customer age: 32
Enter customer Phone Number: 1234
Enter customer address: delhi

Enter invested amount: 4000
Enter years invested: 5

Compound Interest: 400.00
Total amount at the end of the year (without penalty) is: 4400.00

Penalty: 2.5% of the total amount will be charged.

Balance Sheet:
Customer Name: mahesh
Customer Age: 32
Customer Phone Number:
Customer Address: delhi
Invested Amount: 4000.00
Years Invested: 5
Total Amount at the end of the year: 4290.00

Reminder:The due date for your Life policy is approaching, mahesh! Please

...Program finished with exit code 0
Press ENTER to exit console.
```

SUMMARY-

1. Customer detail is taken.
2. Invested amount and invested years is filled.
3. Calculated CI is shown.
4. Total amount at the end of year is calculated and shown.
5. Penalty is shown (if charged).
6. Balance sheet is shown.
7. In the end, reminder is shown to the customer.

3. VEHICLE INSURANCE

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INPUT-

```
#include <stdio.h>
2 // Customer details structure
3 struct Customer {
4     char name[50];
5     char address[100];
6     int age;
7     long int phoneNo;
8 };
9
10 // Function to calculate vehicle insurance cost for 1st year
11 float calculateVehicleInsuranceCost(float vehiclecost, float insurancecost) {
12
13     // Calculate 5% of the insured amount for total vehicle damage
14     float claimamount = 0.05 * vehiclecost;
15
16     int totalinsurancecost = claimamount + insurancecost;
17     return totalinsurancecost;
18 }
19 // Apply 20% depreciation each year
20 int calculatelastinsurancecost(float vehiclecost, int yearsinvested, float insurancecost)
21 {
22     float lastinsuranceclaim;
23     float depreciatedcost;
24
25     for (int yearsinvested = 1; yearsinvested < 10; yearsinvested++)
26     {
27         depreciatedcost = 0.80 * vehiclecost;
28         lastinsuranceclaim = 0.05 * depreciatedcost;
29     }
30     return (lastinsuranceclaim + insurancecost);
31 }
32 int main() {
33     printf("\n\t\t\t\t*****\n");
34     printf("\033[1m"); // Start bold text
35     printf("\t\t\t\tVEHICLE INSURANCE \n");
36     printf("\033[0m"); // Reset text formatting
37     printf("\t\t\t\t*****\n");
```

SUMMARY-

1. In the customer detail section, we defined a structure containing customer details.
2. Two functions are shown in which first function contain two parameters and the other function containing 3 parameters.
3. Main function starts.
4. Local variables are declared and then last output i.e., customer details and insurance cost to be calculated is shown.

3. VEHICLE INSURANCE

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OUTPUT-

```
*****  
VEHICLE INSURANCE  
*****  
  
Enter customer name: mahesh  
Enter customer address: delhi  
Enter customer age: 32  
Enter customer phone number: 1234  
  
Enter vehicle type (2 for Two-Wheeler / 4 for Four-Wheeler): 4  
Enter the actual cost for the vehicle: 50000  
Years Invested: 2  
  
-----  
Customer Details:  
Name: mahesh  
Address: delhi  
Age: 32  
Phone Number: 1234  
  
Vehicle Insurance Cost at the end of Year 1: Rs 5500.00  
Vehicle Insurance Cost at the end of Year 2: Rs 5000  
  
-----  
  
Reminder:The due date for your Life policy is approaching, mahesh! Please  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

SUMMARY-

1. Customer details are taken.
2. Considering the type of vehicle (2 wheeler / 4 wheeler), actual cost of the vehicle and years invested vehicle insurance cost for the first year and the last year of the number of year invested is calculated.
3. In the end, reminder is displayed to the customer for due date of the payment.

4. HEALTH INSURANCE

14

INPUT-

```
1 #include <stdio.h>
2 // Customer details structure
3 struct Customer {
4     char name[50];
5     char address[100];
6     int age;
7     long int phoneNo;
8 };
9
10 // Function to calculate health insurance cost
11 float calculateHICost(char healthInsuranceType) {
12     float cost;
13
14     // Fixed amount for Gold Pass and Platinum Pass
15     if (healthInsuranceType == 'G' || healthInsuranceType == 'g') {
16         cost = 500.0;
17         {
18             printf("\nMedical expenses(for treatment) of Rs 1,00,000 are covered \n");
19         }
20     } else if (healthInsuranceType == 'P' || healthInsuranceType == 'p') {
21         cost = 1000.0;
22         {
23             printf("\nMedical expenses(for treatment) of Rs 5,00,000 which includes");
24         }
25     } else {
26         printf("Invalid health insurance type.\n");
27         return 0.0;
28     }
29
30     return cost;
31 }
32 int main()
33 {
34     printf("\n\t\t\t\t\t*****\n");
35     printf("\033[1m"); // Start bold text
36     printf("\t\t\t\t\tHEALTH INSURANCE \n");
37     printf("\033[0m"); // Reset text formatting
```

SUMMARY-

1. Under customer details section, a structure is written that contains the details to be asked from the customer.
2. A function is declared containing only 1 parameter and a local variable [It is a recursion type function].
3. It contains If-else loop for determining the insurance cost based on the type of plan to be chosen by the customer.
4. Main function starts.
5. Customer details are taken.
6. Some local variables are declared along with the printing summary.
7. Customer details are printed and towards the end the function i.e., healthInsuranceCost function is called.

4. HEALTH INSURANCE

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OUTPUT-

```
*****
      HEALTH INSURANCE
*****

Enter customer name: Mahesh
Enter customer address: delhi
Enter customer age: 32
Enter customer phone number: 1234

Enter health insurance type ('G' or 'g' for Gold Pass / 'P' or 'p' for Platinum Pass): p

Customer Details:
Name: Mahesh
Address: delhi
Age: 32Phone Number: 1234

Medical expenses(for treatment) of Rs 5,00,000 which includes all types of medical illnesses covered in accidental cases).
Health Insurance Cost: Rs 1000.00

Reminder:The due date for your Life policy is approaching, Mahesh! Please submit your payment.

...Program finished with exit code 0
Press ENTER to exit console.
```

SUMMARY-

1. Customer details are taken.
2. Customer is asked to choose a type of pass from the two given options i.e., gold pass and platinum pass.
3. Customer details are shown along with the type of facilities available in their chosen pass.
4. The calculated health insurance cost is shown.
5. In the end, reminder is displayed to the customer.

SUMMARY

- Life Insurance:**

Life insurance within the policy system provides financial protection to beneficiaries in the event of the policyholder's demise, offering peace of mind and long-term financial security.

- Term Insurance:**

Term insurance, a key component of the policy system, offers affordable coverage for a specified period, ensuring financial support for dependents if the policyholder passes away during the term.

- Vehicle Insurance:**

The insurance policy system includes comprehensive vehicle insurance, safeguarding against potential damages and liabilities arising from accidents, theft, or other unforeseen events, ensuring a secure and worry-free driving experience.

- Health Insurance:**

Health insurance under the policy system is designed to cover medical expenses, providing policyholders with access to quality healthcare services and financial support in times of illness or medical emergencies.

THANK
YOU