

# C PROJECT REPORT



2022-23

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**Sec- A : Roll- 41**

**Enroll. No.- 12022002002010**

**Year- 2022-26**

**Project On- Programming for Problem solving using C.**

**Subject Code- ESC103(Pr.)**

**Stream- CSE**

**Dept.- Basic Science & Humanities**

# Under the supervision of

**<Swarnendu Ghosh>**

**Project report submitted in partial  
fulfillment of the requirements for the  
first semester**



**Department of Basic Science and Humanities  
Institute of Engineering and Management, Kolkata**



# Certificate of Recommendation

We hereby recommend that the project prepared under our supervision by **Debanjan Shome**, entitled **Banking-Mangement\_system** be accepted in partial fulfillment of the requirements for the degree of partial fulfillment of the second semester.

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Head of the Department  
Basic Science & Humanities  
IEM, Kolkata

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Project Supervisor

# Description of diff. elements of the project



This is a simple implementation of a bank management system using C programming language. The program uses an array of structs to store customer details, including account number, name, and balance. The program provides four options to manage bank accounts, including creating a new account, depositing, withdrawing, and viewing the balance of an existing account.

The program starts by declaring a struct called `Customer` that has three fields - `accountNumber`, `name`, and `balance`. Then, it defines five functions:

- 1. `createAccount`** - This function creates a new account and adds it to the `customers` array. It takes two arguments, a pointer to the `customers` array and a pointer to the `count` variable that keeps track of the number of customers in the array.
- 2. `deposit`** - This function deposits money into an existing account. It takes two arguments, the `customers` array and the `count` variable.
- 3. `withdraw`** - This function withdraws money from an existing account. It takes two arguments, the `customers` array and the `count` variable.
- 4. `viewBalance`** - This function displays the balance of an existing account. It takes two arguments, the `customers` array and the `count` variable.
- 5. `main`** - This function is the entry point of the program. It first declares an array of `Customer` structs called `customers` and initializes the `count` variable to zero. It then displays a menu of options to the user and prompts the user to enter a choice. Depending on the user's choice, it calls one of the four functions or exits the program.

Overall, this is a simple implementation of a bank management system that allows users to create, deposit, withdraw, and view the balance of bank accounts. However, there is no data persistence in this program, meaning that all data is lost when the program exits.

# SNIPPETS of the PROGRAMME

```
C:\Users\deban\OneDrive\Desktop\C\Sem2-Projects>a
Bank Management System
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 1
```

```
Enter customer details:
```

```
Account Number: 100
```

```
Customer Name: Debanjan Shome
```

```
Initial Balance: 1000
```

```
Account created successfully.
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 2
```

```
Enter the account number: 100
```

```
Enter the amount to deposit: 10
```

```
Amount deposited successfully.
```

```
Updated balance: 1010.00
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 3
```

```
Enter the account number: 100
```

```
Enter the amount to withdraw: 25
```

```
Amount withdrawn successfully.
```

```
Updated balance: 985.00
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice:
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 4
```

```
Enter the account number: 101
```

```
Account Number: 101
```

```
Customer Name: Agnik Sarkar
```

```
Current Balance: 100.00
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 5
```

```
Thank you for using the bank management system.
```

```
C:\Users\deban\OneDrive\Desktop\C\Sem2-Projects>a
Bank Management System
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 6
```

```
Invalid choice. Please try again.
```

```
Select an option:
```

1. Create an account
2. Deposit
3. Withdraw
4. View balance
5. Exit

```
Enter your choice: 5
```

```
Thank you for using the bank management system.
```