```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P1_1.cp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add account details.
Enter 2 to deposit.
Enter 3 to withdraw.
Enter 4 to display current balance.
Else to Exit.
Enter the option which you want: 1
Enter the account holder's name: Jenil
Enter the account number: 1
Account addition successful!
Enter the option which you want: 2
Enter the account number: 1
Enter the amount to be deposited: 1000
Deposit successful!
Enter the option which you want: 3
Enter the account number: 1
Enter the amount to be withdrawn: 100
Withdrawal successful!
Enter the option which you want: 4
Enter the account number: 1
Current balance: 1900
Enter the option which you want: else
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P1_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add new product.
Enter 2 to update quantity of product.
Enter 3 to display bill & exit.
Enter the option which you want: 1
Enter product ID: 10
Enter name of product: charger
Enter price of product: 1000
Product is added successfully!
Enter the option which you want: 2
Enter product ID: 10
Enter no. of quantity to be updated: 3
quantity is updated successfully!
Enter the option which you want: 3
-----------------------------------------------
Name              quantity         price   Total
-----------------------------------------------
charger 3                  1000    3000
-----------------------------------------------
Total Bill: 3000
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ▮
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P2_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add plot data.
Enter 2 to update plot data.
Enter 3 to display plot data.
Else to exit.
Enter your choice: 1
Enter length of plot: 10
Enter width of plot: 5
plot's data is successfully added!
Enter your choice: 2
Enter plot no.: 1
Enter new length of plot: 14
Enter new width of plot: 7
plot's data is successfully updated!
Enter your choice: 3
Enter 1 to display all plot data & enter 2 to display any one plot data which you want: 1
plot 1 details:
length: 14
width: 7
area: 98
perimeter: 42
Enter your choice: else
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P2_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add student's details.
Enter 2 to display student's details.
Else to exit.
Enter your choice which you want: 1
Enter roll number: 82
Enter name: Jenil
Enter marks of subject 1: 89
Enter marks of subject 2: 80
Enter marks of subject 3: 90
student's details are successfully added!
Enter your choice which you want: 2
Enter student's roll no.: 82
student's details:
Roll number: 82
name: Jenil
Marks of subject 1: 89
Marks of subject 2: 80
Marks of subject 3: 90
average: 86
Enter your choice which you want: else
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P2_3.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add account details.
Enter 2 to deposit.
Enter 3 to withdraw.
Enter 4 to display current balance.
Else to Exit.
Enter the option which you want: 1
Enter the account holder's name: Jenil
Enter the account number: 1
account addition successful!
Enter the option which you want: 2
Enter the account number: 1
Enter the amount to be deposited: 10000
Deposit successful!
Enter the option which you want: 3
Enter the account number: 1
Enter the amount to be withdrawn: 1000
Withdrawal successful!
Enter the option which you want: 4
Enter the account number: 1
account holder's name: Jenil
account number: 1
Current balance: 10000
Enter the option which you want: else
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
Enter 1 to add item.
Enter 2 to increase quantity.
Enter 3 to decrease quantity.
Enter 4 to display item's details.
Else to Exit.
Enter the option which you want: 1
Enter item ID: 1
Enter item's name: icecream
Enter price of item: 40
Enter the option which you want: 2
Enter item ID: 1
Enter quantity to be increased: 3
Item's quantity is successfully increased!
Enter the option which you want: 3
Enter item ID: 1
Enter quantity to be decreased: 1
Item's quantity is successfully decreased!
Enter the option which you want: 4
Enter item ID: 1
Item's details:
ID: 1
Name: icecream
Price: 40
Quantity: 3
Enter the option which you want: else
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P2_5.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add loan account.
Enter 2 to display account data.
Else to Exit.
Enter the option which you want: 1
Enter loan ID: 1
Enter applicant's name: Jenil
Enter total loan amount: 120000
Enter annual interest rate: 7
Enter loan tenure in months: 24
Enter the option which you want: 2
Enter Loan ID: 1
Account's details:
Applicant's name: Jenil
Total loan amount: 120000
Annual interest rate: 7%
Loan tenure in months: 24
Total EMI of loan amount: 5372.67
Enter the option which you want: else
24CE082 Jenil Patel
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add employee's data.
Enter 2 to display employee's data.
Else to exit.
Enter your choice which you want: 1
Enter employee's name: Het
Enter employee's basic salary: 25000
Enter 0 to add default bonus or 1 to add additional bonus: 1
Enter additional bonus: 3000
Employee's data is successfully added!
Enter your choice which you want: 2
Enter employee's ID: 1
Employee details:
Name: Het
Basic salary: 25000
Bonus amount: 3000
Total salary: 30500
Enter your choice which you want: else
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter the size of the array: 5
Enter element 1: 17
Enter element 2: 778
Enter element 3: 55
Enter element 4: 88
Enter element 5: 23
Sum using recursion: 961
Sum using iteration: 961
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_3.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 to add account details.
Enter 2 to transfer money.
Enter 3 to display no. of accounts.
Else to exit.
Enter the option which you want: 1
Enter the account number: 1
Enter the account holder's name: Jenil
Enter the account balance: 10000
Account addition successful!
Enter the option which you want: 1
Enter the account number: 2
Enter the account holder's name: Mitesh
Enter the account balance: 5000
Account addition successful!
Enter the option which you want: 2
Enter the account no. for withdrawal: 2
Enter the account no. for deposit: 1
Enter the amount be transferred: 2000
Amount is successfully transferred!
Transaction summary:
Account's details:
Account no. : 2
Account holder's name: Mitesh
Current balance: 3000
Account's details:
Account no. : 1
Account holder's name: Jenil
Current balance: 12000
Enter the option which you want: 3
The no. of account created: 2
Enter the option which you want: else
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter the no. of elements: 3
Enter the data type (i = int, f = float, c = char): i
Enter element 1: 12
Enter element 2: 44
Enter element 3: 32
Entered data: 12 44 32
Max Value: 44
Reversed Data: 32 44 12
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter the no. of elements: 3
Enter the data type (i = int, f = float, c = char): f
Enter element 1: 13.6
Enter element 2: 78.5
Enter element 3: 42.9
Entered data: 13.6 78.5 42.9
Max Value: 78.5
Reversed Data: 42.9 78.5 13.6
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter the no. of elements: 3
Enter the data type (i = int, f = float, c = char): c
Enter element 1: a
Enter element 2: h
Enter element 3: e
Entered data: a h e
Max Value: h
Reversed Data: e h a
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P3_5.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter number(n): 123
Enter the number of repetitions(k): 3
Super digit: 9
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P4_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter radius: 7
Area of circle: 153.86
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P4_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter name: Jenil
Enter age: 19
Enter employee ID: 82
Enter department: ce
Entered data:~
Name: Jenil
Age: 19
Employee ID: 82
Department: ce
24CE082_Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P4_3.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter car name: omni
Enter brand's name: maruti
Enter fuel type(D for diesel, P for petrol, C for CNG & H for hybrid or petrol/CNG both): H
Entered car details:~
Car name: omni
Brand's name: maruti
Fuel type: Hybrid
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P4_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter S for savings account.
Enter C for current account.
Enter E to exit.
Enter your choice: S
Enter 1 to add savings account's details.
Enter 2 to deposit money.
Enter 3 to withdraw money.
Enter 4 to apply interest.
Enter 5 to display account's details.
Enter your choice: 1
Enter account number: 12
Enter balance: 25000
Account addition successful!
Enter your choice: S
Enter 1 to add savings account's details.
Enter 2 to deposit money.
Enter 3 to withdraw money.
Enter 4 to apply interest.
Enter 5 to display account's details.
Enter your choice: 2
Enter the account number: 12
Enter the amount to be deposited: 12000
Deposit successful!
Current balance: 37000
Enter your choice: S4
Enter 1 to add savings account's details.
Enter 2 to deposit money.
Enter 3 to withdraw money.
Enter 4 to apply interest.
Enter 5 to display account's details.
Enter your choice: Enter the account number: 12
Enter interest rate: 8
Applied interest: 2960
Enter your choice: S
Enter 1 to add savings account's details.
Enter 2 to deposit money.
Enter 3 to withdraw money.
Enter 4 to apply interest.
Enter 5 to display account's details.
Enter your choice: 5
Enter the account number: 12
Account number: 12
Current balance: 37000
Interest rate: 8%
Enter your choice: E
24CE082 Jenil Patel.
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> g++ P4_5.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical> ./a.exe
Enter 1 for UG student
Enter 2 for PG student
Enter choice:1
Enter the name of student: ddd
Enter the marks of 3 subjects: 12
22
22
The average of 3 subjects: 18.6667
Student details:
The name of student: ddd
The marks of 3 subjects: 12, 22, 22
The student is fail
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\Practical>
```