```
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Enter the amount to be withdrawn: 100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\CPP\Practical> g++ P5_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe

Using STL approach (vector):
5
5.6
5.5
Using array:
5
5.7
5.5

24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P5_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
Enter two complex numbers:
(Real and imaginary parts)
(Assume the first entered value is for the real part and the second for the imaginary part):
Enter first complex number: 10 2

Enter second complex number: 2  5

Addition: 12 + 7i
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P5_3.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
Enter x and y coordinates for the first input: 1 1

Enter x and y coordinates for the second input: 5 5
After addition: (6, 6)
After negation: (-6, -6)
Undo last operation: (6, 6)
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P5_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
=== Static Array (Celsius to Fahrenheit) ===
0 C = 32 F
37 C = 98.6 F
100 C = 212 F

=== Queue (FIFO) Example ===
From Fahrenheit -> Celsius: 0 C
From Fahrenheit -> Celsius: 100 C

=== Comparison ===
100 C is equal to 212 F
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P5_5.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
Shape 1 Area: 15
Shape 2 Area: 12.56
Shape 3 Area: 10
Shape 4 Area: 38.465
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P6_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
after insertions: [ 10 20 30 40 ]
after removal: [ 10 30 40 ]
current size: 3
current capacity: 4
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P6_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
enter initial x and y coordinates: 1 1
initial position: point (1 , 1)
enter dx1 and dy1: 10 20
enter dx2 and dy2: 1 30
final position after movements: point (12 , 51)
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P6_3.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
enter the size of first sorted array: 3
enter the size of second sorted array: 4
enter elements of first sorted array:
1
2
2
enter elements of second sorted array:
5
4
9
6
merged sorted array:
1 2 2 5 4 9 6
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```
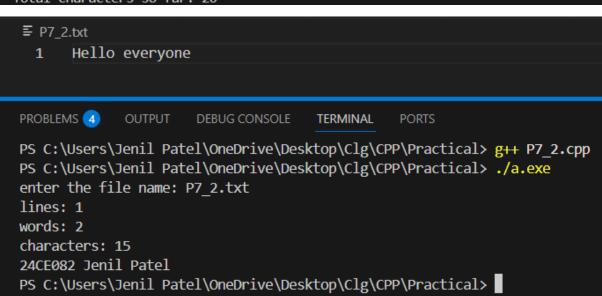
```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P6_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
base constructor called
derived constructor called (allocated memory)
derived destructor called (freed memory)
base destructor called
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

P7_1.txt

```
1    hii my name is Jenil
2
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P7_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
Enter data :
hii my name is Jenil
You entered: hii my name is Jenil
Total characters so far: 20
```

P7_2.txt

```
1     Hello everyone
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P7_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
enter the file name: P7_2.txt
lines: 1
words: 2
characters: 15
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

≡ inventory.txt
```
1    icecream,3,100
2    burger,1,159
3    colddrinks,10,30
```

PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P7_3.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe

--- inventory management ---
1. add new item
2. view inventory
3. search item
4. exit
enter choice: 1
enter item name: colddrinks
enter quantity: 10
enter price: 30
item added successfully.

--- inventory management ---
1. add new item
2. view inventory
3. search item
4. exit
enter choice: 2

--- inventory ---
name: icecream, quantity: 3, price: 100
name: burger, quantity: 1, price: 159
name: colddrinks, quantity: 10, price: 30
--- inventory management ---
1. add new item
2. view inventory
3. search item
4. exit
enter choice: 3
enter item name to search: burger
item found: burger,1,159

--- inventory management ---
1. add new item
2. view inventory
3. search item
4. exit
enter choice: 4
exiting...
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>

≡ P7_4.txt

	Name	Grade1	Grade2	Grade3	Fees
1	Name	Grade1	Grade2	Grade3	Fees
2	---				
3	Jenish	A	B	C	75000.00
4	Harshil	F	C	B	50000.00
5	Vansh	F	B	C	67000.00

PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P7_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
Enter number of students: 3

Enter details for student 1:
Name: Jenish
Mark 1: 90
Mark 2: 88
Mark 3: 79
Fees: 75000

Enter details for student 2:
Name: Harshil
Mark 1: 33
Mark 2: 78
Mark 3: 88
Fees: 50000

Enter details for student 3:
Name: Vansh
Mark 1: 45
Mark 2: 80
Mark 3: 76
Fees: 67000

Enter output file name: P7_4.txt

Data has been written to P7_4.txt
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P7_5.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
Name              Marks        Fees
-----------------------------------------
Harshil           77.00        Rs 15000.00
Maxy              90.00        Rs 12000.00
Vansh             71.00        Rs 5000.00
Yash              80.00        Rs 9000.00
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P8_1.cpp
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
 Enter number of elements in the sequence: 4
 Enter 4 integers: 10
 7
 5
 9

 Original Sequence: 10 7 5 9
 Reversed Sequence: 9 5 7 10
 24CE082 Jenil Patel
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P8_2.cpp
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
 enter a sentence: An apple is very juicy This is very juicy apple

 word frequency distribution:
 an: 1
 apple: 2
 is: 2
 juicy: 2
 this: 1
 very: 2
 24CE082 Jenil Patel
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P8_3.cpp
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
 Enter the number of integers: 5
 Enter the integers: 1
 1
 3
 6
 6

 Unique Elements:
 1
 3
 6
 24CE082 Jenil Patel
 PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P8_4.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
enter number of students: 3
enter name of student 1: Vansh
enter score of student 1: 78
enter name of student 2: Jenish
enter score of student 2: 90
enter name of student 3: Harshil
enter score of student 3: 45

sorted students by scores (descending):
Jenish: 90
Vansh: 78
Harshil: 45
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P8_5.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe

1. add folder
2. add file to folder
3. display directory
0. exit
choose: 1
enter folder name: cpp
folder 'cpp' created.

1. add folder
2. add file to folder
3. display directory
0. exit
choose: 2
enter folder name: cpp
enter file name: practical
file 'practical' added to folder 'cpp'.

1. add folder
2. add file to folder
3. display directory
0. exit
choose: 3

--- directory structure ---
folder: cpp
  - practical

1. add folder
2. add file to folder
3. display directory
0. exit
choose: 0
exiting...
24CE082 Jenil Patel
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P9_1.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
--- loan to income ratio calculator ---
enter total loan amount: 10000
enter your annual income: 50000

loan-to-income ratio: 0.20
low risk.
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```

```
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> g++ P9_2.cpp
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical> ./a.exe
[error] in function 'withdraw': attempt to withdraw $20000.000000 with only $12000.000000 available.
[error] in function 'deposit': attempt to deposit non-positive amount.
account holder: john doe
current balance: $11000.00

transaction history for john doe:
1. account created for john doe with initial balance: 10000.000000
2. deposited: $2500.000000
3. withdrawn: $500.000000
4. error in withdraw: attempt to withdraw $20000.000000 with only $12000.000000 available.
5. error in deposit: attempt to deposit non-positive amount.
6. withdrawn: $1000.000000
24CE082 Jenil Patel
PS C:\Users\Jenil Patel\OneDrive\Desktop\Clg\CPP\Practical>
```