```
[]
Main.java
                                                                 ∝ Share
                                                                                        Output
                                                                              Run
 1 class Customer {
     private int accountNo;
                                                                                      Deposit successful. New balance: 1500.0
     private String accName;
                                                                                      Withdrawal successful. New balance: 0.0
     private double balance;
                                                                                       === Code Execution Successful ===
      public Customer(int accountNo, String accName, double balance) {
        this.accountNo = accountNo:
        this.accName = accName;
        this.balance = balance;
10
      public synchronized void deposit(double amount) {
        balance += amount;
14
        System.out.println("Deposit successful. New balance: " + balance);
       notify(); // notify waiting thread
17
      public synchronized void withdraw(double amount) {
18
        while (balance < amount) {
19
20
          try {
           wait(): // wait until deposit is made
21
22
          } catch (InterruptedException e) {
23
           e.printStackTrace();
24
25
```

```
1 import java.util.Scanner;
                                                                                      Enter a number: 233828947
 3 public class PalindromeGenerator {
                                                                                      Palindrome found: 124424421
      public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
                                                                                       === Code Execution Successful ===
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();
        int reversedNum:
10
        int sum;
        while (true) {
         reversedNum = reverseNumber(num);
         sum = num + reversedNum;
16
         if (isPalindrome(sum)) {
18
            System.out.println("Palindrome found: " + sum);
19
            break:
20
22
         num = sum:
23
24
     private static int reverseNumber(int num) {
```

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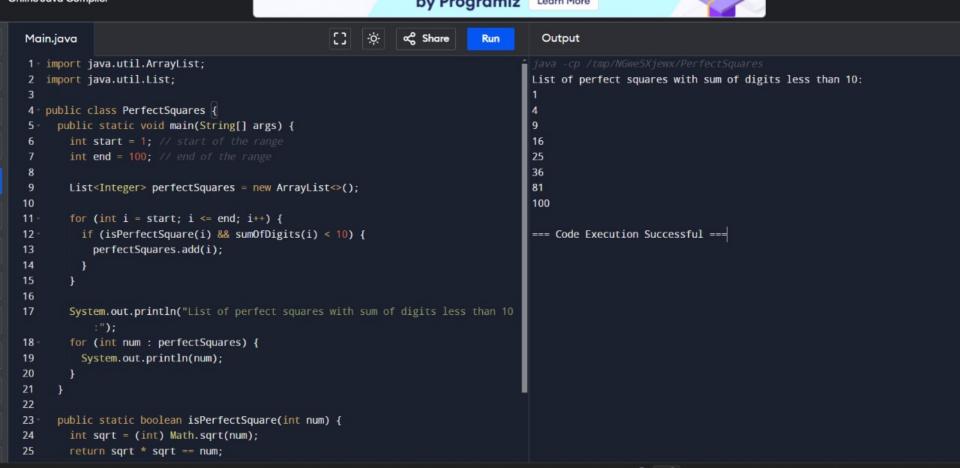
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Main.java
                                                                 ≪ Share
                                                                                         Output
                                                                               Run
 1 import java.util.Scanner;
                                                                                       Enter the number of elements: 5
   public class SquareArray {
                                                                                       Enter number 1: 25
      public static void main(String[] args) {
                                                                                       Enter number 2: 50
                                                                                       Enter number 3: 45
        Scanner scanner = new Scanner(System.in);
                                                                                       Enter number 4: 68
        System.out.print("Enter the number of elements: ");
                                                                                       Enter number 5: 90
        int n = scanner.nextInt();
                                                                                       Array:
                                                                                       [25, 625]
10
        int[][] array = new int[n][2];
                                                                                       [50, 2500]
                                                                                       [45, 2025]
        for (int i = 0; i < n; i++) {
12
                                                                                       [68, 4624]
          System.out.print("Enter number " + (i + 1) + ": ");
13
                                                                                       [90, 8100]
14
          int num = scanner.nextInt();
15
                                                                                       === Code Execution Successful ===
16
          array[i][0] = num;
          array[i][1] = num * num;
18
19
        System.out.println("Array:");
20
        for (int i = 0; i < n; i^{++}) {
21
22
          System.out.println("[" + array[i][0] + ", " + array[i][1] + "]");
23
24
25
```

```
Main.java
                                                                ≪ Share
                                                                                       Output
                                                                             Run
1 import java.util.Scanner;
                                                                                      Enter depositor name: akshith
3 class BankAccount {
                                                                                      Enter account number: 902839288
                                                                                      Enter account type (Savings/Current): 234586
     private String depositorName;
     private int accountNumber;
                                                                                      Account Details:
     private String accountType;
                                                                                      Depositor Name: akshith
     private double balance;
                                                                                      Account Number: 902839288
                                                                                      Account Type: 234586
     public BankAccount() {
                                                                                      Balance: 500.0
10
       this.balance = 500.00; // minimum balance
                                                                                      Enter amount to deposit:
     public void readAccountDetails() {
       Scanner scanner = new Scanner(System.in);
       System.out.print("Enter depositor name: ");
16
       depositorName = scanner.nextLine();
18
19
       System.out.print("Enter account number: ");
       accountNumber = scanner.nextInt();
20
       System.out.print("Enter account type (Savings/Current): ");
22
       accountType = scanner.next();
23
24
25
     public void depositAmount() {
26
                                                                                                                                              ENG - -
```

```
Main.java
                                                                 ∝ Share
                                                                              Run
                                                                                        Output
 1 import java.util.Scanner;
                                                                                       Enter a number: 34
3 public class UniquePermutations {
                                                                                       34
      public static void main(String[] args) {
                                                                                       43
        Scanner scanner = new Scanner(System.in);
                                                                                       === Code Execution Successful ===
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();
 9
10
        String strNum = String.valueOf(num);
        char[] chars = strNum.toCharArray();
12
        permutation(chars, 0, chars.length - 1);
14
16
      public static void permutation(char[] chars, int 1, int r) {
        if (1 == r)
17
          System.out.println(new String(chars));
18
19
        else {
20
          for (int i = 1; i \le r; i ++) {
21
            swap(chars, 1, i);
22
            permutation(chars, l + 1, r);
            swap(chars, 1, i); // backtrack
23
24
25
26
```



```
Main.java
                                                                  ∝ Share
                                                                                         Output
                                                                               Run
  1 import java.util.Scanner;
                                                                                        Enter the value of n: 3
  3 public class NthPrime {
                                                                                        The 3th prime number is: 5
       public static void main(String[] args) {
                                                                                        === Code Execution Successful ===
         Scanner scanner = new Scanner(System.in);
         System.out.print("Enter the value of n: ");
         int n = scanner.nextInt();
 10
         int count = 0;
 11
         int num = 2;
         while (true) {
 12
           if (isPrime(num)) {
 13
 14
             count++;
 15
             if (count == n) {
 16
               System.out.println("The " + n + "th prime number is: " + num);
               break;
 17
 18
 19
 20
           num++;
 21
 22
 23
 24
       public static boolean isPrime(int num) {
         if (num <= 1) {
 25
           return false;
 26
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