

1.

```
package practicecoding;
```

```
import java.util.Scanner;
```

```
public class ReverseDemo {
```

```
    public static void main(String[] args){
```

```
        Scanner se=new Scanner(System.in);
```

```
        System.out.println("enter the string: ");
```

```
        String s=se.nextLine();
```

```
        System.out.println("reverse string: ");
```

```
        for(int i=s.length();i>0;--i) {
```

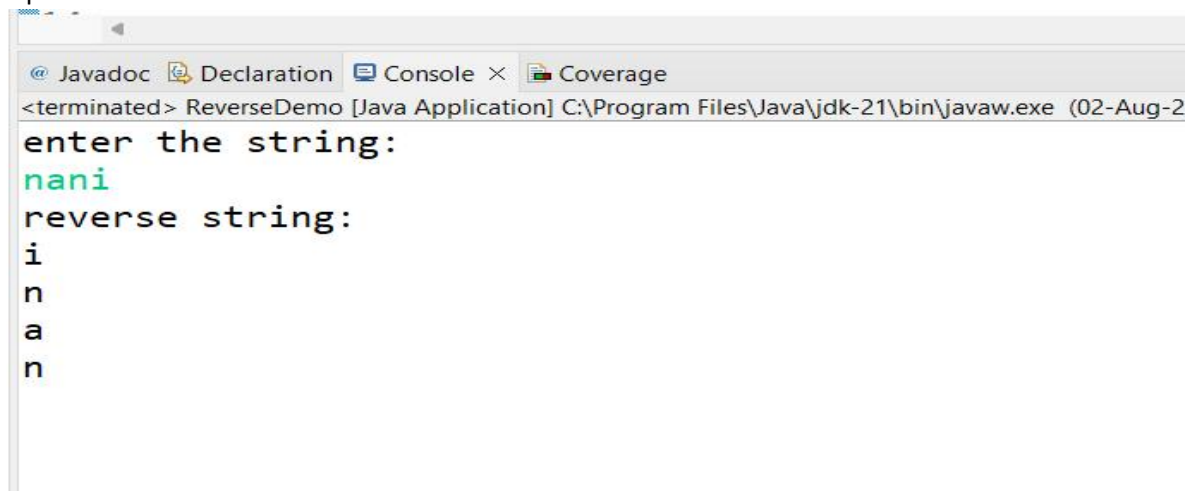
```
            System.out.println(s.charAt(i-1));
```

```
        }
```

```
    }
```

```
}
```

Output:



```
@ Javadoc Declaration Console × Coverage
<terminated> ReverseDemo [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (02-Aug-2
enter the string:
nani
reverse string:
i
n
a
n
```

2.

```
package praticecoding;

import java.util.Scanner;
import java.util.*;

public class MissingNumber {

    public static void main(String[] args) {

        Scanner s=new Scanner(System.in);

        List<Integer> nm=new ArrayList<>();

        System.out.println("enter the number of integers : ");

        int n=s.nextInt();

        System.out.println("enter the integers: ");

        for(int i=0;i<n;i++) {

            nm.add(s.nextInt());

        }

        Collections.sort(nm);

        System.out.println("sorted list: "+nm);

        int start=nm.get(0);

        int end=nm.get(nm.size() - 1);

        for(int i=start;i<=end;i++) {

            if(!nm.contains(i)) {

                System.out.println("missing number: "+i);

            }

        }

        s.close();

    }

}
```

```
    }  
  
}
```

Output:

```
<terminated> MissingNumber [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe  
enter the number of integers :  
7  
enter the integers:  
1  
2  
3  
4  
6  
7  
8  
sorted list: [1, 2, 3, 4, 6, 7, 8]  
missing number: 5
```

3.package practicecoding;

public class BankAccount {

private double balance;

 // Constructor to initialize the balance

public BankAccount(**double** initialBalance) {

if (initialBalance >= 0) {

this.balance = initialBalance;

} else {

 System.**out**.println("Initial balance cannot be negative.");

this.balance = 0;

}

}

 // Method to deposit money into the account

public void deposit(**double** amount) {

if (amount > 0) {

 balance += amount;

 System.**out**.println("Deposited: " + amount);

} else {

 System.**out**.println("Deposit amount must be positive.");

}

}

 // Method to withdraw money from the account

public void withdraw(**double** amount) {

if (amount > 0) {

if (amount <= balance) {

 balance -= amount;

 System.**out**.println("Withdrew: " + amount);

```

    } else {
        System.out.println("Insufficient funds. Withdrawal amount exceeds balance.");
    }
} else {
    System.out.println("Withdrawal amount must be positive.");
}
}

// Method to check the balance of the account
public double checkBalance() {
    return balance;
}

public static void main(String[] args) {
    // Create a BankAccount object with an initial balance
    BankAccount account = new BankAccount(1000);

    // Display the initial balance
    System.out.println("Initial Balance: " + account.checkBalance());

    // Deposit money
    account.deposit(500);
    System.out.println("Balance after deposit: " + account.checkBalance());

    // Withdraw money
    account.withdraw(200);
    System.out.println("Balance after withdrawal: " + account.checkBalance());

    // Attempt to withdraw more money than the balance
    account.withdraw(2000);
    System.out.println("Balance after attempting excessive withdrawal: " + account.checkBalance());
}

```

```
// Attempt to deposit a negative amount
account.deposit(-50);

// Attempt to withdraw a negative amount
account.withdraw(-100);
}
}
```

Output:

```
<terminated> BankAccount [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (02-Aug-2024, 10:49:50 pm – 10:49:50 pm) [pid
Initial Balance: 1000.0
Deposited: 500.0
Balance after deposit: 1500.0
Withdrew: 200.0
Balance after withdrawal: 1300.0
Insufficient funds. Withdrawal amount exceeds balance.
Balance after attempting excessive withdrawal: 1300.0
Deposit amount must be positive.
Withdrawal amount must be positive.
```