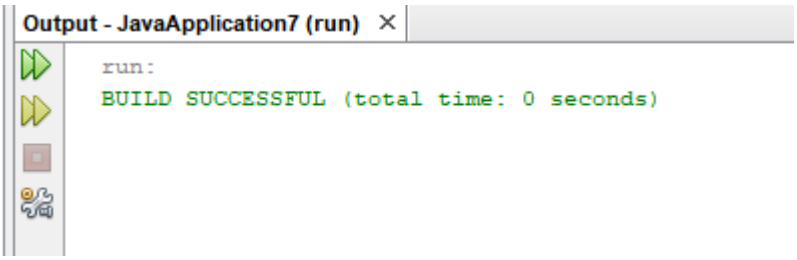
1]

```
package javaapplication7;
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.nio.file.StandardCopyOption;
public class JavaApplication7 {
public static void main(String[] args) {
Path p = Paths.get("C:\\java programs\\New folder\\backup");
Path p1 = Paths.get("scores");
Path p2 = Paths.get("backup");
Path p3 = Paths.get("sample.txt");
Path woD = p.resolve(p1);
Path woF = p.resolve(p1.resolve(p3));
Path buD = p.resolve(p2);
Path buF = p.resolve(p2.resolve(p3));
try {
if(Files.exists(woF)){
if(Files.notExists(buD)){
Files.createDirectories(buD);
}
Files.copy(woF, buF, StandardCopyOption.REPLACE_EXISTING,
StandardCopyOption.COPY_ATTRIBUTES);
}
if(Files.notExists(woD))
Files.createDirectories(woD);
if(Files.notExists(woF))
Files.createFile(woF);
}
catch (IOException x) {
```

```
System.err.println(x);
}
}
}
```

Output:



2]

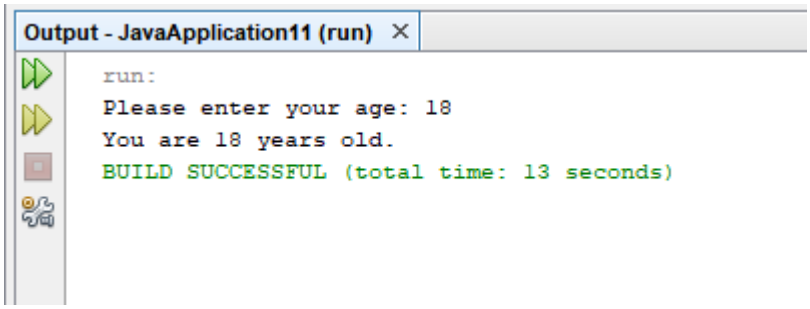
```
package javaapplication11;
import java.util.InputMismatchException;
import java.util.Scanner;

public class JavaApplication11{
   static int getAge() {
      int age = -1;
      Scanner in = new Scanner(System.in);
      try {
         System.out.print("Please enter your age: ");
         age = in.nextInt();
      } catch (InputMismatchException e) {
         System.err.println("Invalid input. Please enter a valid age.");
      } catch (Exception e) {
         System.err.println(e);
      } finally {
         if (in != null)
            in.close();
      }
      return age;
```

```
    }

    public static void main(String[] args) {
        int age = getAge();
        if (age != -1) {
            System.out.println("You are " + age + " years old.");
        } else {
            System.out.println("Age not entered.");
        }
    }
}
```

Output:

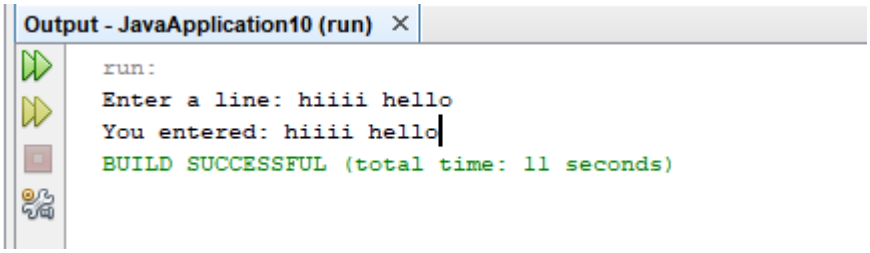


3]

```
package javaapplication10;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
public class JavaApplication10{
  private static String readLine() {
String line = "";
InputStreamReader isr = new InputStreamReader(System.in);
BufferedReader in = new BufferedReader(isr);
try {
line = in.readLine();
}//end try
catch (IOException e) {
```

```
System.err.println(e);
}//end catch
return line;
}/
   public static void main(String[] args) {
      System.out.print("Enter a line: ");
      String input = readLine();
      System.out.println("You entered: " + input);
   }
}
```

Output:



4]

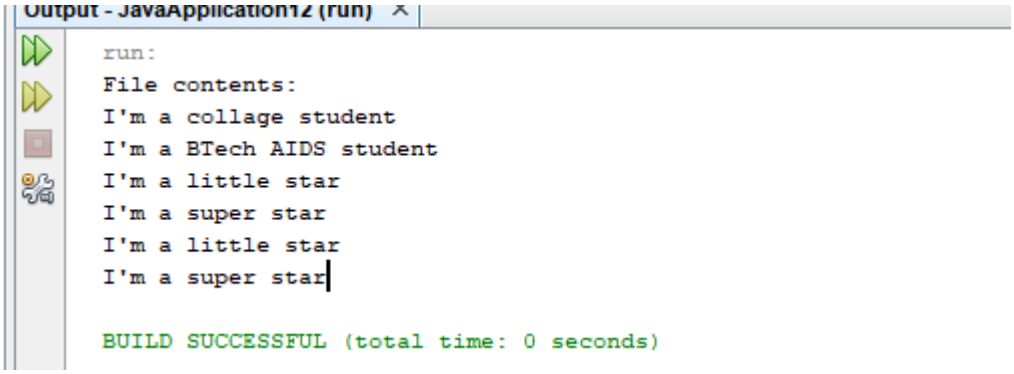
```
package javaapplication12;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;


public class JavaApplication12{
   private static String readFile() {
      try (BufferedReader br = new BufferedReader(new FileReader("C:\\java
programs\\sample.txt"))) {
         StringBuilder fileContents = new StringBuilder();
         String line = br.readLine();
         while (line != null) {
            fileContents.append(line);
            fileContents.append(System.lineSeparator());
            line = br.readLine();
```

```
            }//end while
            return fileContents.toString();
        } catch (IOException e) {
            System.err.println(e);
            return null;
        }
    }

    public static void main(String[] args) {
        String fileContent = readFile();
        if (fileContent != null) {
            System.out.println("File contents:");
            System.out.println(fileContent);
        } else {
            System.out.println("Error reading file.");
        }
    }
}
```

Output:



5]

```
package javaapplication13;

import java.util.Scanner;


public class JavaApplication13 {
```

```
    public static char[] readEntry() {
        Scanner scanner = new Scanner(System.in);
        String inputString = scanner.nextLine();
        return inputString.toCharArray();
    }

    public static void main(String[] args) {
        StringBuffer sb = new StringBuffer();
        char[] input;
        System.out.print("Enter a string: ");
        input = readEntry();
        for (int i = 0; i < input.length; i++) {
            if (input[i] != '\n' && input[i] != '\0')
                sb.append(input[i]);
        }
        System.out.println(sb);
    }
}
```

Output: