

The screenshot shows the IntelliJ IDEA interface with a Java project named "single". The code in `single.java` is as follows:

```
public class single {
    public static void main(String[] args) {
        String str1 = "java String pool refers collection of strings which are stored in heap memory";
        System.out.println(str1.toUpperCase());
        System.out.println(str1.toLowerCase());
        System.out.println(str1.replace('a', '$'));
        System.out.println(str1.contains("collection"));
        System.out.equals("java string pool refers collection of strings whic are stored in heap memory");
        System.out.println(str1.equalsIgnoreCase(anotherString: "java string pool refers collection of strings which are st"));
    }
}
```

The run output shows the results of the println statements:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=62071:C:\Program F
JAVA STRING POOL REFERS COLLECTION OF STRINGS WHICH ARE STORED IN HEAP MEMORY
java string pool refers collection of strings which are stored in heap memory
j$V$ String pool refers collection of strings $re stored in he$ memory
false
false
false

Process finished with exit code 0
```

A warning message "Experimental Feature Alert" is displayed in the bottom right corner.

The screenshot shows the IntelliJ IDEA interface with a Java project titled "length of the string". The code editor displays a file named "length.java" containing the following code:

```
public class length {
    public static void main(String[] args){
        String str="helloworld";
        int count =str.length();
        System.out.println(str.length());
    }
}
```

The "Run" tool window at the bottom shows the output of the run command: "C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=61895:C:\Program F...". The output shows "10" and "Process finished with exit code 0". A tooltip "Experimental Feature Alert" is visible in the bottom right corner.

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project Bar:** Shows multiple open tabs: "length of the string" (active), "sved08720@gmail.com", "Clone of iTransform Core Java", "Core Java - OneDrive", and "Java in Tamil - String Introduction".
- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, Help.
- Toolbar:** Includes icons for Run, Stop, Refresh, and others.
- Code Editor:** Displays the file "fruit.java" with the following code:

```
1 public class fruit {
2     public static void main(String[] args){
3         String s1="Hello world";
4         String s2="How are u";
5         String s=s1+s2;
6         System.out.println(s);
7     }
8
9
10 }
```
- Run Tab:** Shows the output of the run command: "Hello worldHow are u".
- Bottom Status Bar:** Shows "All files are up-to-date (a minute ago)" and "6.24 CPU: 1.75 GHz, 4 spaces".
- Experimental Feature Alert:** A message box in the bottom right corner says: "Experimental Feature Alert" and "You must accept the terms of legal notice of the beta Java specification to enable support for '17...'".

The screenshot shows the IntelliJ IDEA interface with a Java project named 'single'. The code editor displays a file named 'single.java' containing the following code:

```
import java.lang.*;
public class single {
    public static void main(String[] args) {
        StringBuilder ibu = new StringBuilder("StringBuilder");
        ibu.append("is a peer class of string");
        ibu.append("the functionality of strings");
        System.out.println(ibu);
    }
}
```

The 'Run' tool window at the bottom shows the output of the run command: "StringBuilder is a peer class of stringthe functionality of strings". Below this, a message box displays an 'Experimental Feature Alert' about Java 17 support.

The screenshot shows the IntelliJ IDEA interface with a Java project named "single". The "single.java" file contains the following code:

```
import java.lang.*;
public class single {
    public static void main(String[] args) {
        StringBuilder ibu = new StringBuilder("it is used to _at the specified index positon");
        System.out.println(ibu.reverse());
    }
}
```

The "Run" tab shows the output of the program:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=62230:C:\Program F
notisop xedni deificeps eht ta_ ot desu si ti
Process finished with exit code 0
```

A tooltip "Experimental Feature Alert" is visible in the bottom right corner, stating: "You must accept the terms of legal notice of the beta Java specification to enable support for '17..."

The screenshot shows the IntelliJ IDEA interface. The code editor displays a Java file named `single.java` with the following content:

```
import java.lang.*;
public class single {
    public static void main(String[] args) {
        StringBuilder ibu = new StringBuilder("it is used to _at the specified index positon");
        ibu.insert( offset: 14, str: "insert text");
        System.out .println(ibu);
        System.out.println(ibu.toString());
    }
}
```

The terminal window below shows the output of running the code:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=62222:C:\Program F
it is used to insert text_at the specified index positon
it is used to insert text_at the specified index positon
Process finished with exit code 0
```

A tooltip in the bottom right corner reads: "Experimental Feature Alert. You must accept the terms of legal notice of the beta Java specification to enable support for '17..."

The screenshot shows the IntelliJ IDEA interface with a Java project named "single". The code in `single.java` is:

```
import java.lang.*;
public class single {
    public static void main(String[] args) {
        StringBuffer ibu = new StringBuffer("it is used to _ at the specified index position");
        System.out.println(ibu.reverse());
    }
}
```

The run output window shows the result of running the program:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=62129:C:\Program F
noitisop xedni deificeps eht ta _ ot desu si ti
Process finished with exit code 0
```

A tooltip "Experimental Feature Alert" is visible in the bottom right corner, stating: "You must accept the terms of legal notice of the beta Java specification to enable support for '17..."

The screenshot shows the IntelliJ IDEA interface with a Java project named "single". The code editor displays a file named "single.java" containing the following code:

```
import java.lang.*;
public class single{
    public static void main(String[] args){
        StringBuffer ibu =new StringBuffer("it is used to _ at the specified index position");
        ibu.insert( offset 14, str "Insert text");
        System.out.println(ibu);
    }
}
```

The run tab shows the output of the program:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=62114:C:\Program F
it is used to insert text_ at the specified index position
Process finished with exit code 0
```

A message box titled "Experimental Feature Alert" is visible in the bottom right corner, stating: "You must accept the terms of legal notice of the beta Java specification to enable support for '17...".

```
import java.lang.*;
public class single{
    public static void main(String[] args){
        StringBuffer ibu=new StringBuffer("StringBuffer");
        ibu.append("is a peer class of string");
        ibu.append("that provides much of ");
        ibu.append("the functionality of strings");
        System.out.println(ibu);
    }
}
```

Run: single

"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2021.2.3\lib\idea_rt.jar=62090:C:\Program F
StringBuffer is a peer class of string that provides much of the functionality of strings
Process finished with exit code 0

Experimental Feature Alert
You must accept the terms of legal notice of the beta Java specification to enable support for '17...'