

AIM: To perform parameter passing in applets.

THEORY:

- Parameter Passing

HTML `<param>` tag is used to pass the parameters to the object that has been embedded using `<applet>` element.

We can use more than one `<param>` tag within an `<applet>` element in any order, but each tag must contain name and value attribute and should be placed at the start of the content.

Syntax: `<param name = " " value = " " >`

To retrieve a parameter, we use `getParameter()` method in the class methods. It returns the value of the specified parameter in the form of String object. Thus, for numeric and boolean values, you will need to convert their string representations into their internal formats.

For eg:

```
import java.awt.*;
import java.applet.*;
/* <applet code = "ParamDemo" width = 300 height = 80 >
<param name = fontName value = Courier >
<param name = fontSize value = 14 >
<param name = account value = true > </applet>
*/
```

```
public class ParamDemo extends Applet {
    String fontName; int fontSize; boolean active;
```



```

public void start () {
    String param;
    FontName = getParameter ("FontName");
    param = getParameter ("font size");
    try {
        FontSize = Integer.parseInt (param);
    } catch (NumberFormatException e) {}
    param = getParameter ("account");
    try {
        active = Boolean.parseBoolean (param);
    } catch (Exception e) {}
}

```

```

public void paint (Graphics g) {
    g.drawString ("Font name: " + FontName, 0, 10);
    g.drawString ("Font size = " + FontSize, 0, 26);
    g.drawString ("Account active = " + active, 0, 58);
}
}

```

Output in applet window :

Font name: Courier

Font size : 14

Account active: true

## CONCLUSION

### Errors encountered

- i) error: incompatible types: int cannot be converted to String  
`str = 2 + a;`

Solution

Correct Syntax: `str = 2 + a + " ";`

- ii) error: cannot find symbol  
`str = getParameter(String);`

Solution

Correct Syntax: `str = getParameter("String");`

## LAB 12: PARAMETER PASSING IN APPLET

Name: Shreyas Sawant

Div: D7A

Roll No.: 55

Write a program to demonstrate the working of PARAM tag in applets.



```
ParaApp - Notepad
File Edit Format View Help

import java.awt.*;
import java.applet.*;
/*<applet code=ParaApp width=400 height=400>
<param name=String value=1>
<param name=sea value=ocean></applet>*/

public class ParaApp extends Applet
{
    String str,str1;
    public void init()
    {
        str=getParameter("String");
        str1=getParameter("sea");
        int a=Integer.parseInt(str);
        if(a<3)
        {
            str=getParameter("String");
            str1+=str;}
        str=2+a+" ";
    }

    public void paint(Graphics g)
    {
        Font f1=new Font("Arial",Font.BOLD,18);
        g.setFont(f1);
        g.drawString("Addition: "+str,30,30);
        g.drawString("Concatenation: "+str1,30,50);
    }
}
```

Ln 16, Col 23 120% Windows (CRLF) UTF-8

Type here to search 80°F Haze 19:03 15-12-2021

ParaApp - Notepad

File Edit Format View Help

```
import java.awt.*;
import java.applet.*;
/*<applet code=ParaApp width=400 height=400>
<param name=String value=1>
<param name=sea value=ocean></applet>*/

public class ParaApp extends Applet
{
    String str,s
    public void
    {
        str=
        str1
        int
        if(a
        {
            ng");
        }

        str=

    }

    public void
    {
        Font f1=new Font("Arial",Font.BOLD,
        g.setFont(f1);
        g.drawString("Addition: "+str,30,30);
        g.drawString("Concatenation: "+str1,30,50);

    }
}
```

Applet Viewer: ParaApp

Applet

**Addition: 3**  
**Concatenation: ocean1**

Applet started.

C:\Windows\System32\cmd.exe - appletviewer ParaApp.java

C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 12>javac ParaApp.java  
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 12>appletviewer ParaApp.java

Ln 16, Col 23

120%

Windows (CRLF)

UTF-8

Windows Taskbar

Type here to search

80°F Haze

19:03

15-12-2021