

Philip Pesic

Week 17

May 14 2023

Week 17 Prog 2

<https://www.youtube.com/watch?v=QB5pOT45zvg>

```
package Prog2;

class prog2 {
    public static <T> void print(T[] i) {
        for (T x : i) {
            System.out.printf("%s ", x);
        }
        System.out.println();
    }

    public static void main(String[] args) {
        Integer[] i = { 1, 2, 3, 4 };
        Character[] c = { 'b', 'u', 'c', 'y' };

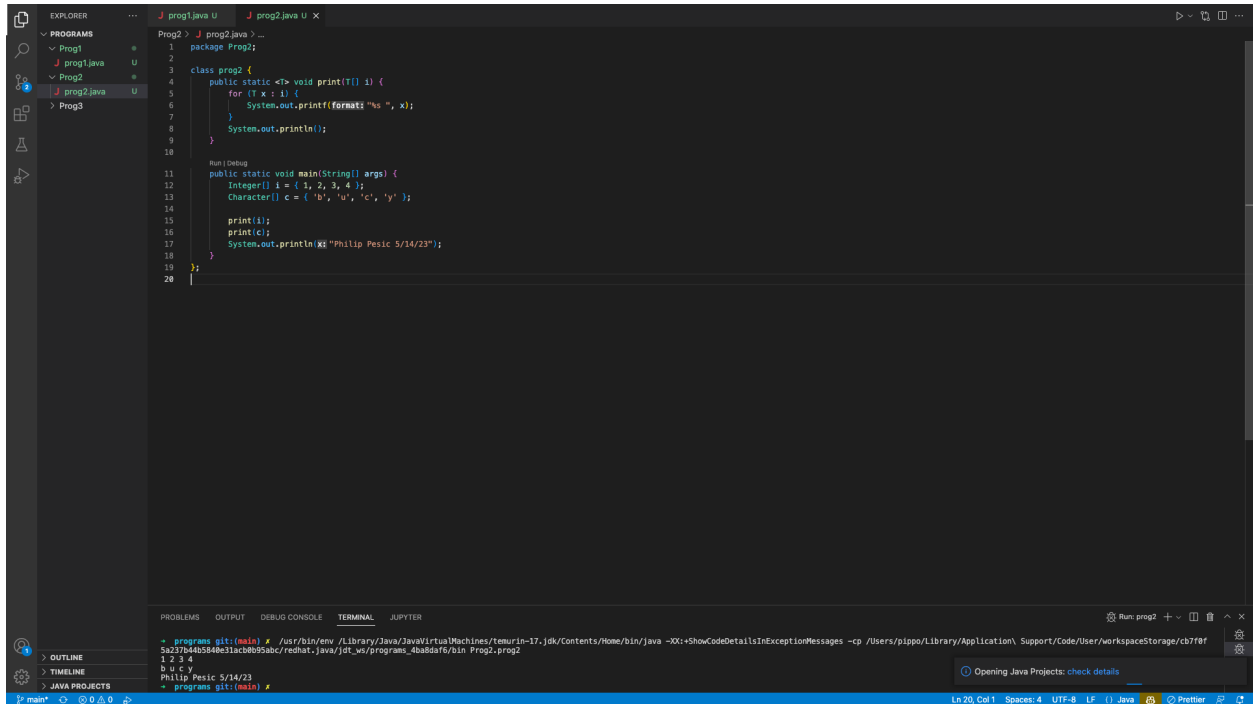
        print(i);
        print(c);
        System.out.println("Philip Pesic 5/14/23");
    }
};
```

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```
1 package Prog2;
2
3 class prog2 {
4     public static <T> void print(T[] t) {
5         for (T x : t) {
6             System.out.printf("x: %s\n", x);
7         }
8         System.out.println();
9     }
10
11     public static void main(String[] args) {
12         Integer[] i = { 1, 2, 3, 4 };
13         Character[] c = { 'b', 'u', 'c', 'y' };
14         print(i);
15         print(c);
16         System.out.println("Philip Pesic 5/14/23");
17     }
18 }
19
20
```

Run | Debug

problems git:(main) x /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -Xi-ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/cb7f8f 5a227b4b3848e31ac8b85abc/redhat:java/jdt_ws/programs_4ba8da16/bin Prog2.prog2

1 2 3 4
b u c y
Philip Pesic 5/14/23

problems git:(main) x

I learned how to use generic functions

Summary

To make a function generic, declare a `<T>` before the function type. This is a generic type that can be used to instantiate any variables in the function. The type of `T` is then determined by the type of arguments passed.