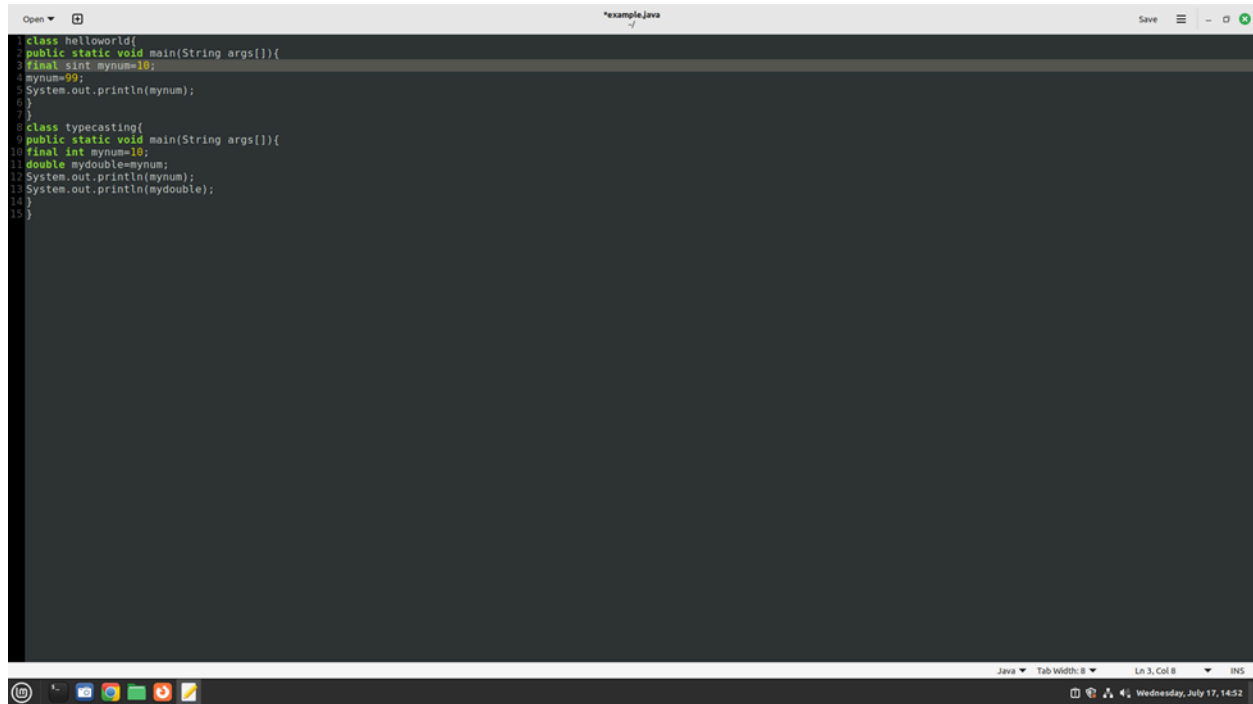


JAVA LAB (WEEK-1 & 2)

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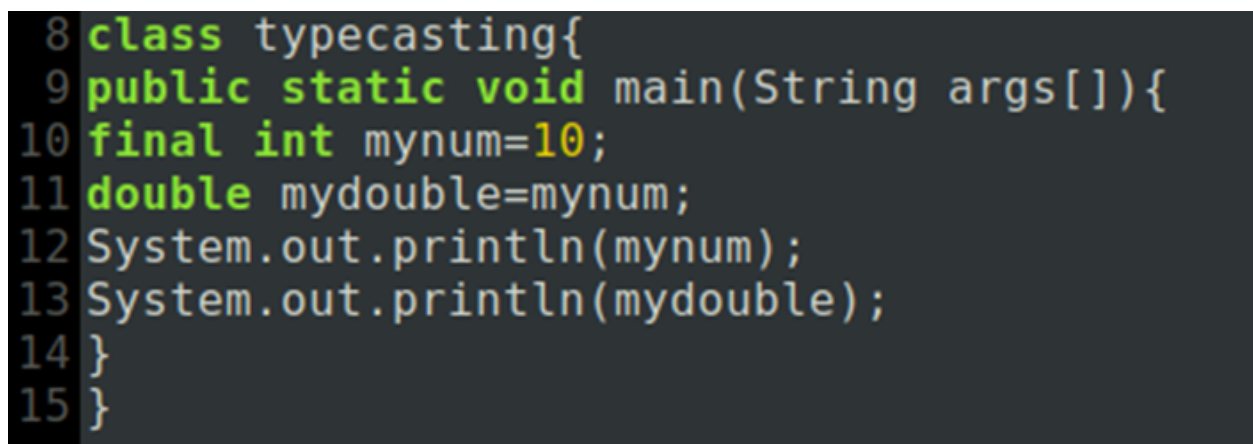
Final



The screenshot shows an IDE window titled "example.java" with two classes. The first class, "helloworld", has a main method that declares a final integer variable "mynum" with the value 10 and prints it. The second class, "typecasting", has a main method that declares a final integer variable "mynum" with the value 10, then declares a double variable "mydouble" and assigns it the value of "mynum", finally printing both variables.

```
1 class helloworld{
2     public static void main(String args[]){
3         final sint mynum=10;
4         mynum=99;
5         System.out.println(mynum);
6     }
7 }
8 class typecasting{
9     public static void main(String args[]){
10        final int mynum=10;
11        double mydouble=mynum;
12        System.out.println(mynum);
13        System.out.println(mydouble);
14    }
15 }
```

Typecasting



This block provides a close-up view of the "typecasting" class code from the previous screenshot. It shows the class declaration, the main method signature, the declaration of a final integer variable "mynum" with the value 10, the declaration of a double variable "mydouble" and its assignment to "mynum", and the two print statements that output the values of "mynum" and "mydouble".

```
8 class typecasting{
9     public static void main(String args[]){
10    final int mynum=10;
11    double mydouble=mynum;
12    System.out.println(mynum);
13    System.out.println(mydouble);
14 }
15 }
```

OUTPUT:

```
student@admin:~$ ls
21BAI1696  app      Downloads  Music      node_modules
21BPS1484  Desktop  eclipse-workspace  my          Public
22brs1095  Documents example.java  my-react-app  RED_HAWK
student@admin:~$ java example.java
10
10.0
```

Explicit Typecasting

```
16 class typecasting{
17 public static void main(String args[]){
18 double mydouble=9.78d;
19 int myint=(int)mydouble;
20 System.out.println(myint);
21 System.out.println(mydouble);
22 }
23 }
```

OUTPUT:

```
student@admin:~$ java example.java
9
9.78
student@admin:~$
```

Sum

```
15 */  
16 class sum{  
17 public static void main(String args[]){  
18 int sum1=100+50;  
19 int sum2=sum1+250;  
20 int sum3=sum2+sum2;  
21 System.out.println(sum1);  
22 System.out.println(sum2);  
23 System.out.println(sum3);  
24 }  
25 }
```

OUTPUT:

```
student@admin:~$ java example.java  
150  
400  
800  
student@admin:~$
```

```
26 class sum{  
27 public static void main(String args[]){  
28 int x,y;  
29 x=20;  
30 y=(x==1)?61:90;  
31 System.out.print(y);  
32 y=(x==1)?61:90;  
33 System.out.print(y);  
34 }  
35 }
```

Length of string

```
36 class stringsize{
37 public static void main(String args[]){
38 String txt="ABCD";
39 System.out.print("The length of the string is "+txt.length());
40 }
41 }
```

OUTPUT:

```
student@admin:~$ java example.java
example.java:38: error: cannot find symbol
string txt="ABCD";
^
  symbol:   class string
  location: class stringsize
1 error
error: compilation failed
student@admin:~$ java example.java
The length of the string is 4student@admin:~$
```

```
1.
public class Mug{
public static void main(String[]args){
boolean isjavafun=true;
boolean isFishTasty=false;
System.out.println(isjavafun);
System.out.println(isFishTasty);
}
}
```

Output:

```
File Edit View Search Terminal Help
student@admin:~$ ls
1071 CE1351 Downloads Music Public Videos
1.1 Desktop eclipse-workspace Pictures srinivas.txt
3-a.1 Documents fdsf pt Templates
student@admin:~$ cd Desktop
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
true
false
student@admin:~/Desktop$
```

2.

```
public class Mug{
public static void main(String[]args){
int x=10;
int y=9;
System.out.println(x>y);
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
true
```

3.

```
public class Mug{
public static void main(String[]args){
int x=10;
int y=15;
System.out.println(x==y);
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
false
```

4.

```
public class Mug{
public static void main(String[]args){
if(20>18){
System.out.println("20 is greater than 18");
}
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
20 is greater than 18
```

5.

```
public class Mug{
public static void main(String[]args){
int time=20;
if(time<18){
System.out.println("Good Day");
}
else{
System.out.println("Good evening");
}
}
}
```

OUTPUT:

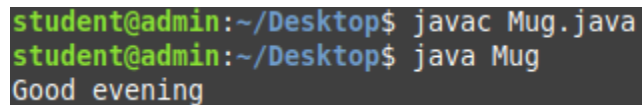
```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
Good evening
```

6.

```
public class Mug{
public static void main(String[]args){
int time=22;
if(time<10){
```

```
System.out.println("Good Morning");
}
else if(time<20){
System.out.println("Good Day");
}
else{
System.out.println("Good evening");
}
}
}
```

OUTPUT:

A terminal window with a dark background. The prompt is 'student@admin:~/Desktop\$'. The first command is 'javac Mug.java' and the second is 'java Mug'. The output of the second command is 'Good evening'.

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
Good evening
```

7.

```
public class Mug{
public static void main(String[]args){
int day=4;
switch(day){
case 1:
System.out.println("Monday");
break;
case 2:
System.out.println("Tuesday");
break;
case 3:
System.out.println("Wednesday");
break;
case 4:
System.out.println("Thursday");
break;
case 5:
System.out.println("Friday");
break;
case 6:
System.out.println("Saturday");
```

```
break;
case 7:
System.out.println("Sunday");
break;
}
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
Thursday
```

8.

```
public class Mug{
public static void main(String[]args){
int i=0;
while(i<5)
{
System.out.println(i);
i++;
}
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
0
1
2
3
4
```

9.

```
public class Mug{
public static void main(String[]args){
int i=0;
do
```



```
{
System.out.println(i);
i++;
}
while(i<5);
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
0
1
2
3
4
```

10.

```
public class Mug{
public static void main(String[]args){
for(int i=0;i<5;i++)
{
System.out.println(i);
}
}
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
0
1
2
3
4
```

11.

```
public class Mug{
public static void main(String[]args){
String[]cars={"Volvo","BMW","Ford","Mazda"};
for(String i:cars)
```

```
{  
System.out.println(i);  
}  
}  
}
```

OUTPUT:

```
student@admin:~/Desktop$ javac Mug.java  
student@admin:~/Desktop$ java Mug  
Volvo  
BMW  
Ford  
Mazda
```

12.

```
public class Mug{  
public static void main(String[]args){  
for(int i=0;i<10;i++)  
{  
if(i==4)  
{  
continue;  
}  
System.out.println(i);  
}  
}  
}
```

OUTPUT:

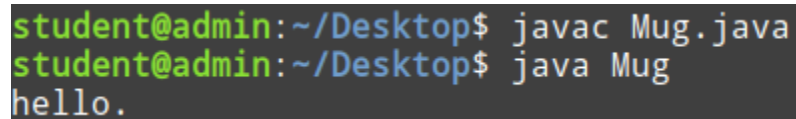
```
student@admin:~/Desktop$ javac Mug.java  
student@admin:~/Desktop$ java Mug  
0  
1  
2  
3  
5  
6  
7  
8  
9
```

STRING

1.

```
public class Mug{
public static void main(String[]args){
char[] helloArray={'h','e','l','l','o','.'};
String helloString= new String(helloArray);
System.out.println(helloString);
}
}
```

OUTPUT:



```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
hello.
```

CALCULATOR:

CODE:

```
import java.util.Scanner;
public class Main
{
public static void main(String args[])
{
double n1,n2,result;
char operator;
Scanner input=new Scanner(System.in);
System.out.println("choose the operator");
operator=input.next().charAt(0);
System.out.println("enter the first number");
n1=input.nextDouble();
System.out.println("enter the second number");
n2=input.nextDouble();
switch(operator){
case'+':
```

```
result=n1+n2;
System.out.println(result);
break;
case '-':
result=n1-n2;
System.out.println(result);
break;
case '*':
result=n1*n2;
System.out.println(result);
break;
case '/':
result=n1/n2;
System.out.println(result);
break;
}
input.close();
}
```

OUTPUT:

```
java -cp /tmp/KEbCmZTtnG/Main
```

```
choose the operator
```

```
*
```

```
enter the first number
```

```
3
```

```
enter the second number
```

```
5
```

```
15.0
```

```
=== Code Execution Successful ===
```