JAVA LAB (WEEK-1 & 2)

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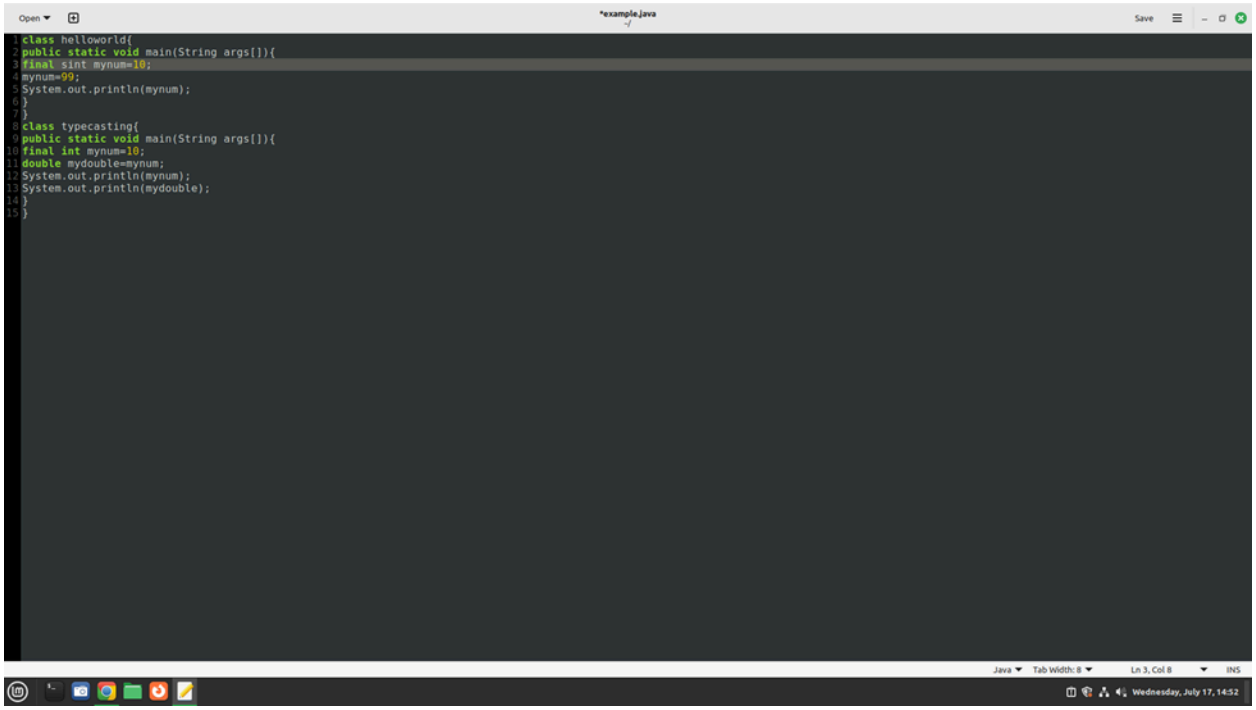
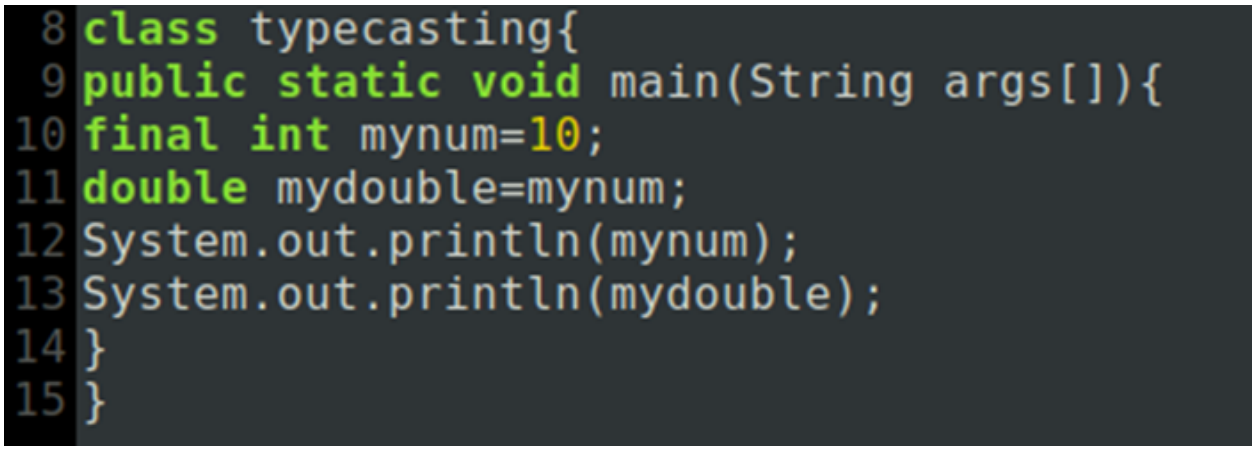
23BCE1820

Final




Typecasting



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.l    Desktop    eclipse-workspace  Pictures  srinivas.txt
3-a.l  Documents  fdsf               pt        Templates
student@admin:~$ cd Desktop
student@admin:~/Desktop$ javac  Mug.java
student@admin:~/Desktop$ java Mug
true
false
```

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:

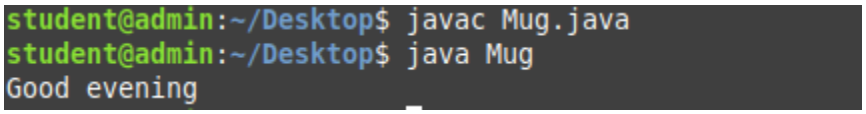
```
student@admin:~/Desktop$ javac Mug.java
student@admin:~/Desktop$ java Mug
Good evening
```

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:




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 ===
```