Artificial Intelligence and Data Science Department.

OOPM / Odd Sem 2021-22 / Experiment.

YASH SARANG. 47 / D6AD. EXPERIMENT - 8.

AIM: To write a program to demonstrate use of final variable.

Program 1:

```
import java.util.*;
final class ship
{
    public static void main(String args[])
    {
        final int var = 32;
        System.out.println("Value of var is " + var);
        var = 100; //ERROR
        System.out.println("Value of var is " + var);
    }
}
```

The output of program 1:

```
PS D:\Programming\Java> javac Ship.java
Ship.java:10: error: cannot assign a value to final variable var
var = 100;
^
1 error
PS D:\Programming\Java>
```

THEORY + CONCLUSION:

	51
Final on JAVA	
Theory: i) The keyworld final is ea	Med modifier in general.
have a constant value and the	word final before them
the on my other methods in the	class
but those will be certain situations is	a useful fotox in JAVA,
prevent it from happening.	Pour being oversiden use
prevent it from happening. iv) To disallow a method Should specify the world knal as a of the method.	modifier of the beginning
of the method. V) Hence, a final method is	a method that cannot
be overriden class of d	
And and of and	
2 System.out. p	rintly ("This is a hind method")
}	
lass B extends X (void 8how () {	
2 System.out	. printle (" this is an error");
)	

To prevent a class from being inherited, we need to add a 'final' beyword with the class declaration

vii) For example, this program will show a error

since class B tries to inherit class of which is declared to be final final class & {

Class B extends & {

Yerror. viii) Declaring a class as final automatically makes all methods final. Conclusion: Final keyworld is used in variables to prevent their value from being changed later on tunction overtridling can be prevented to we declare the methods or final. Other classes cannot inherit a final class.