Artificial Intelligence and Data Science Department.

OOPM / Odd Sem 2021-22 / Experiment 10.

YASH SARANG. 47 / D6AD. EXPERIMENT - 10.

AIM / THEORY:

Experiment No. 10 Ain: Write a program to demonstrate user defined packages. Theory: A package is a group of similar types of class, interface & sub-packages. Packages in gara canbe sub-categorized in two types: · Built-in parkages -Eg. java, lang, aut, javare, swing, net, io, will, sql-· User defined parkages .-Syntare-Emport package. name Class; l'import single class. import parkage. name. ; l'import whole park. G. import java. util, Scanner. Howantages: · Packages is used to categorize the classes & interfaces so that they can be easily maintained · Packages provide access protection. · Packages avoid naming collision.

— Two packages can have same class names

Program 1:

Program Code:

Package Creation

```
package calculatorpackage;
public class Calculator{
    public int add(int x, int y){
        return x+y;
    }
    public int subtract(int x,int y){
        return x-y;
    }
    public int multiply(int x,int y){
        return x*y;
    }
    public float divide(float x, float y){
        return x/y;
    }
}
```

Importing custom package

```
import calculatorpackage.*;

class Calc{
    public static void main(String[] args){
        calculatorpackage.Calculator c = new calculatorpackage.Calculator();

        System.out.println("Sum :"+c.add(4,5));
        System.out.println("Difference :"+c.subtract(4,5));
        System.out.println("Product :"+c.multiply(4,5));
        System.out.println("Quotient :"+c.divide(4,5));
    }
}
```

The output of the program:

C:\java>javac Calc.java C:\java>java Calc.java Sum :9 Difference :-1 Product :20 Quotient :0.8

Conclusion:

We have studied & learned about program

Packages, types of packages, built-in packages

on java. We also learned about creating

custom packages & imposting them.