Bajrang 11212766 B3 BCSE-506L (Performance Analysis of Programming Languages Lab)

EXPERIMENT NO. 5

<u>AIM</u>: WAP to demonstrate the concept of Method Overriding with Dynamic method dispatch.

ALGORITHM: SHOW OVERRIDE

STEP 1: Start the program.

STEP 2: Create the Parent class having method named: show method.

STEP 2: Create the Child class inherited from Parent class having same show method with different body.

STEP 3: In the main (), declare the objects of child class.

STEP 4: Access the show method of child class using object of child class.

STEP 5: Now make reference of parent class and assign to child's class object to invoke show method using concept of upcasting.

STEP 6: Exit.

INPUT:

```
class Parent {
   void show() {
        System.out.println("Parent's show method");
    }
}
class Child extends Parent{
   void show(){
        System.out.println("Child's show method");
}
class Inherit Dispatch
    public static void main(String args[]) {
Parent a = new Parent();
Child b = new Child();
Parent c = new Child();
Parent ref;
ref =a;
ref.show();
ref = b;
ref.show();
ref = c;
ref.show();
    }
}
```

OUTPUT:

```
PS E:\java_ass> e:; cd 'e:\java_ass'; & 'C:\Program
Files\Java\jdk-19\bin\java.exe' '--enable-preview'
'-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users'
'Vehicle_Dispatch'
Parent's show method
Child's show method
Child's show method
PS E:\java_ass>
```

Input & Output from IDE:

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Section: B3