

- ⇒ Inheritance
 - ⇒ polymorphism
 - ⇒ for loop
 - ⇒ while loop
 - ⇒ Constructor Implementation
-

class Animal

{ // field and method of the parent class

String name;

public void Eat()

{

System.out.println("I Can Eat");

}

}

// inherit from Animal

class Dog extends Animal

{ // new method in subclass

public void display()

{

System.out.println("my name is " + name);

}

}

```

class main
{
    public static void main (String [] args)
    {
        // Create an object of subclass
        Dog labrador = new Dog();

        // access field of superclass
        labrador.name = "Teju";

        labrador.display();

        labrador.eat();
    }
}

```

o/p:- My name is Teju
I can eat.

polymorphism :-

class Helper

{

static int multiply (int a, int b)

{

return a * b;

}

static double multiply (double a, double b)

{

return a * b;

}

class

{

public static void main (String args)

{ System.out.println (Helper.multiply (2, 4));

System.out.println (" " (5.5, 6.3));

}

for loop

class main

```
{  
    public static void main (String [] args)
```

```
{
```

```
    int n = 5
```

```
    for (int i = 1 ; i <= n ; ++i)
```

```
    {  
        System.out.println ("Java is fun");
```

```
    }
```

```
}
```

```
}
```

o/p:

Java is fun

Java is fun

"

"

1st i = 1

n = 5

four

Java is fun

++i

i = 2

four

n = 5

While loop

```
class WhileLoopDemo {  
    public static void main (String args[])  
    {  
        int i=1;  
        while ( i < 6 )  
        {  
            System.out.println("Teju");  
            i++;  
        }  
    }  
}
```


i++;

}

outp:- Teju

"
"
"
"

Constructor implementation

⇒

class main

{
String language; // constructor no parameter

main()

{
this.language = "Java";

// constructor single parameter

main (String language)

this.language = language;

}
public void getName()

{
System.out.println("programming language : " + this.language);

}

PSVM (String args)

main obj1 = new main();

main obj2 = new main("python");

obj1.getName();

obj2.getName();

}

}