Experiment Title – Constructors in JAVA

Student Name : Nikunj Singhania UID : 20BCS7688

Branch : CSE Section/Group : A

Semester : 3rd Date ofPerformance : 01Sep,2021

Subject Name : JAVA Programming Lab Subject Code : 20CSP -219

1. Aim/Overview of the practical:

Different types of Constructors in JAVA

1. Task to be done/ Which logistics used:



We need to program a class with different types of constructors that can be used to construct the object .

1. Algorithm/Flowchart (For programming based labs):

BEGIN CLASS

CONSTRUCTOR DEFAULT

CONSTRUCTOR PARAMETRIZED

MAIN FUNCTION

CREATING OBJECT OF CLASS //WITHOUT PARAMETERS //DEFAULT CONSTRUCTOR CALLED

CREATING OBJECT OF CLASS //WITH PARAMETERS //PARAMETRIZED CONSTRUCTOR CALLED

MAIN FUNCTION END

END CLASS

1. Steps for experiment/practical/Code:

package E*xpirements*;

*public* *class* Exp1

{

*int* ch = 0;

*String* s = "Default";

    Exp1()

    {

        ch = 10;

    }

    Exp1(*String* cons, *int* ch)

    {

*this*.ch = ch;

        s = cons;

    }

*void* display()

    {

        System.out.println(s+" Constructor Called");

    }

*public* *static* *void* main(*String*[] args)

    {

*Exp1* obj1 = *new* Exp1();

        obj1.display();

        System.out.println("Value of variable ch is "+obj1.ch);

*Exp1* obj2 = *new* Exp1("Parametrized",50);

        obj2.display();

        System.out.println("Value of variable ch is "+obj2.ch);

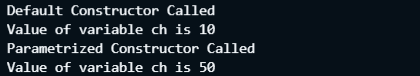
    }

}

1. Observations/Discussions/ Complexity Analysis:

By this we observed that we can create as many constructors we want each of them should be different in their parameters requirement . And when no constructor is declared then default constructor is called .

1. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

1. Constructors in JAVA

2. Parametrized constructors

3. Calling of constructors

4. Variable declarations

5. Variable initializations

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):



|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
|  |  |  |  |