Experiment Title – Methods in JAVA

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Branch : CSE Section/Group : A

Semester : 3rd Date of Performance : 08 Sep,2021

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

1. Aim/Overview of the practical:

Different types of Methods in JAVA

1. Task to be done/ Which logistics used:



We need to program the 3 different types of methods :

1. Static Method
2. Instance Method
3. Factory Method

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

BEGIN CLASS

STATIC FUNCTION

ACCESSOR METHOD

MUTATOR METHOD

MAIN FUNCTION

CALLING STATIC FUNCTION BY USING CLASS NAME

CREATING OBJECT OF THE CLASS

CALLING ACCESSOR AND MUTATOR FUNCTION USING OBJECT

USING FACTORY METHOD

MAIN FUNCTION END

END CLASS

1. Steps for experiment/practical/Code:

package E*xpirements*;

import *java.text.NumberFormat*;

import *java.util.Locale*;

import *java.util.Currency*;

*public* *class* Exp2

{

*String* s;

*public* *static* *void* fun1()

    {

        System.out.println("A Static Function");

    }

*public* *void* setPar(*String* n)

    {

*this*.s = n;

    }

*public* *String* getPar()

    {

*return* s;

    }

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

    {

        Exp2.fun1();

*Exp2* obj = *new* Exp2();

        obj.setPar("Instance Function");

        System.out.println(obj.getPar());

*NumberFormat* ch = NumberFormat.getNumberInstance();

        System.out.println(ch);

        ch.setCurrency(

            Currency.getInstance(

                Locale.US

            )

        );

*String* values = ch.getCurrency().getDisplayName();

        System.out.println(values);

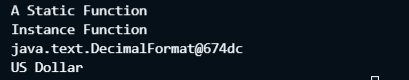
    }

}

1. Observations/Discussions/ Complexity Analysis:

By this we observed that Static function can be called by class name but for Instance functions we need to create object of the specified class

1. Result/Output/Writing Summary:



Learning outcomes (What I have learnt):

1. Methods in JAVA

2. Calling methods

3. Initializing variables using methods

4. Getting values using methods

5. Using Factory methods .

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. |  |  |  |
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