

Dt : 3/9/2022

Assignment:(Solution)

wap to read and display UserDetails using Object reference as parameter to method and return_type concept.

(UserDetails - uName,pWord,fName,lName,city,mailld,phNo)

Program : DemoMethods9.java

import java.util.*;

class UserDetails //SubClass

{

String uName,pWord,fName,lName,city,mailld;

long phNo;

}

class RegisterUser //SubClass

{

UserDetails register(Scanner s)

{

UserDetails ud = new UserDetails();

System.out.println("Enter the UserName:");

ud.uName = s.nextLine();

System.out.println("Enter the PassWord:");

ud.pWord = s.nextLine();

System.out.println("Enter the FirstName:");

ud.fName = s.nextLine();

System.out.println("Enter the LastName:");

```
        ud.lName = s.nextLine();

        System.out.println("Enter the City:");

        ud.city = s.nextLine();

        System.out.println("Enter the Mailld:");

        ud.mailld = s.nextLine();

        System.out.println("Enter the PhoneNo:");

        ud.phNo = s.nextLong();

        return ud;
    }
}

class DisplayUser //SubClass
{
    void display(UserDetails ud)
    {
        System.out.println("====UserDetails====");

        System.out.println("UserName:"+ud.uName);

        System.out.println("PassWord:"+ud.pWord);

        System.out.println("FirstName:"+ud.fName);

        System.out.println("LastName:"+ud.lName);

        System.out.println("City:"+ud.city);

        System.out.println("Mailld:"+ud.mailld);

        System.out.println("PhoneNo:"+ud.phNo);
    }
}
```

```

}

class DemoMethods9 //MainClass

{

    public static void main(String[] args)

    {

        Scanner s = new Scanner(System.in);

        RegisterUser ru = new RegisterUser();

        UserDetails ud = ru.register(s);

        DisplayUser du = new DisplayUser();

        du.display(ud);

    }

}

```

=====

***imp**

Blocks in Java:

=>The set-of-statements which are declared within the flower brackets and executed automatically is known as 'block'.

=>Blocks in Java are categorized into two types:

1.Static blocks

2.NonStatic blocks or Instance blocks

1.Static blocks:

=>The blocks which are declared with static keyword are known as static blocks.

syntax:

static

```
{  
//statements  
}
```

Execution behaviour:

***(i)static block is executed only once with highest priority
when the class is used for first time.***

***(ii)static blocks can access static variables directly but
cannot access Instance variables directly.***

Ex-Program : DemoBlock1.java

class DemoBlock1 //MainClass

```
{  
  
    static int a=10;  
  
    static  
  
    {  
        System.out.println("====static block====");  
        System.out.println("The value a:"+a);  
    }  
  
    public static void main(String[] args)  
  
    {  
        System.out.println("====main() method====");  
    }
```

```

        System.out.println("The value a:"+a);
    }
}

```

o/p:

====static block====

The value a:10

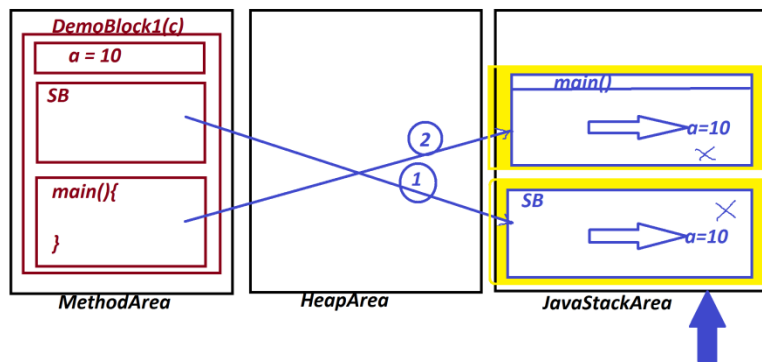
====main() method====

The value a:10

Execution flow of above program:

ClassFiles:

DemoBlock1.class



Execution process:
 step-1 : Loading
 step-2 : Linking
 step-3 : Execution

Ex-Program : DemoBlock2.java

```

class BTest //SubClass

```

```

{

```

```

    static int b;//Static variable memory in Class

```

```

    static
    {
        System.out.println("====SubClass Static block===");

        System.out.println("The value b:"+b);
    }
}

class DemoBlock2 //MainClass
{
    public static void main(String[] args)
    {
        BTest.b = 100; //Loading data to variable b

        //BTest Class is loaded and used

        System.out.println("====main() method====");

        System.out.println("The value b:"+BTest.b);
    }
}

```

o/p:

====SubClass Static block===

The value b:0

====main() method====

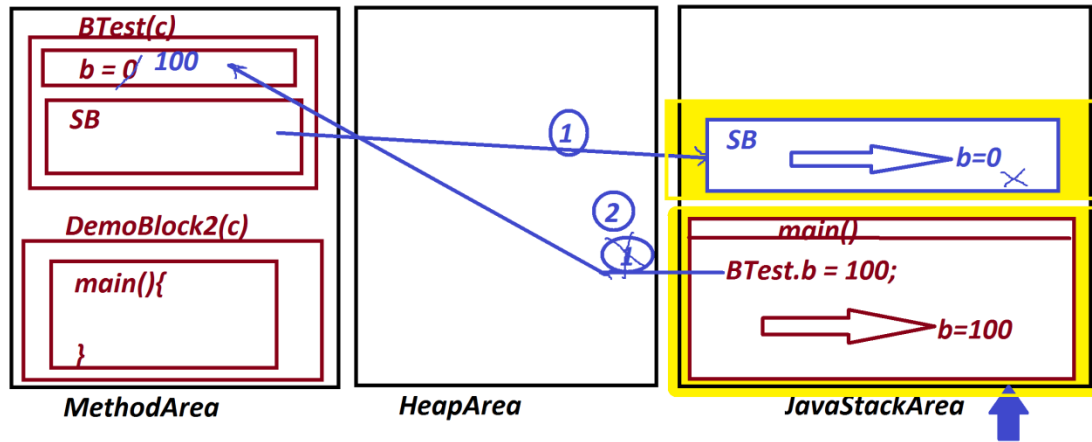
The value b:100

Execution flow of above program:

ClassFiles:

BTest.class

DemoBlock2.class(MainClass)



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