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Java Practice Codes

1. Area of Circle

```
package CODES;
```

```
public class AREAofCIRCLE {
```

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

```
        double radius = 5.0;
```

```
        double pi = 3.142;
```

```
        double area = pi * radius * radius;
```

```
        System.out.println("Area of the circle is: " + area);
```

```
    }
```

```
}
```

2. Data Type Demo

```
package CODES;
```

```
public class DataTypesDemo {
```

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

```
        int value1 =9/2;
```

```
        float value2 =101f/6f;
```

```
        double value3 =100d/3d;
```

```
        float value4=100/3;

        System.out.println("value1="+value1);
        System.out.println("value2="+value2);
        System.out.println("value3="+value3);
        System.out.println("value4="+value4);

    }

}
```

3. Char demo

```
package CODES;

public class CHARDEMO {
    public static void main (String[]args) {
        char ch='a';
        System.out.println(ch);

        //assigning number to char
        char ch1=65;
        System.out.println(ch1);

    }

}
```

4. Operator Demo

```
package CODES;
```

```
public class OperatorDemo {
```

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

```
        int a=10;
```

```
        int b=20;
```

```
        int x=10;
```

```
        System.out.println("a and b value"+"before the operation :"+a+""+b);
```

```
        ++a;
```

```
        int c=++a + b +a--;
```

```
        System.out.println("c value after the operations :"+c);
```

```
        int d=c++ + a + b--;
```

```
        System.out.println("c value after the operations :"+d);
```

```
    }
```

```
}
```

5. For Loop

```
package CODES;
```

```
public class ForLOOP {
```

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

```
        for (int i=1;i<=1000;i++)
```

```
        {
```

```

        System.out.println("Value of i :");
        System.out.println(i);
    }
}

}

```

6. Break

```

package CODES;

public class BREAK {
    public static void main(String[] args) {
        for (int i=5;i<10;i++)
        {
            if (i==5)
                break;
            System.out.println(i);
        }
    }
}

```

7. Constructor Java

```

package CODES;

public class Constructor {

```

```
private String customerName;
```

```
private int customerId;
```

```
private String customerCity;
```

```
public Constructor() {
```

```
    super();
```

```
    // TODO Auto-generated constructor stub
```

```
}
```

```
public Constructor(String customerName, int customerId, String customerCity) {
```

```
    super();
```

```
    this.customerName = customerName;
```

```
    this.customerId = customerId;
```

```
    this.customerCity = customerCity;
```

```
}
```

```
public String getCustomerName() {
```

```
    return customerName;
```

```
}
```

```
public void setCustomerName(String customerName) {
```

```
    this.customerName = customerName;
```

```
}
```

```
public int getCustomerId() {  
    return customerId;  
}
```

```
public void setCustomerId(int customerId) {  
    this.customerId = customerId;  
}
```

```
public String getCustomerCity() {  
    return customerCity;  
}
```

```
public void setCustomerCity(String customerCity) {  
    this.customerCity = customerCity;  
}
```

```
@Override
```

```
public String toString() {
```

```

        return "Constructor [customerName=" + customerName + ", customerId=" +
customerId + ", customerCity="
        + customerCity + "];"
    }

```

// Constructor are used to assigning values to class variables at the time of object creation

```

// Types : Default and parameterized constructor

    }

```

8. Continue

package CODES;

```

public class Continue {
    public static void main(String[] args) {
        for (int k=5; k<15;k++)
        {
            if (k%2 !=0)
                continue;

            System.out.println(k+" ");
        }
    }
}

```

9. Do While

```
package CODES;

public class DOWHILE {

    public static void main(String[] args) {

        int i =11;

        do {

            System.out.println(i);

            i++;

        }

        while(i<=100);

    }

}
```

10.Encapsulation

```
package CODES;

public class ENCAPSULATION1 {

    private int serialNum;

    private String name;

    private int age;

    public int getSerialNum() {

        return serialNum;

    }

    public void setSerialNum(int serialNum) {

        this.serialNum = serialNum;

    }

}
```



```

    }

    public String getName() {

        return name;

    }

    public void setName(String name) {

        this.name = name;

    }

    public int getAge() {

        return age;

    }

    public void setAge(int age) {

        this.age = age;

    }

    @Override

    public String toString() {

        return "ENCAPSULATION1 [serialNum=" + serialNum + ", name=" + name + ", age=" +
age + "]\n";

    }

}

```

11.Executer :

```

package CODES;

public class Executer {

    public static void main (String []args) {

        //accessing same package class
    }
}

```

```

        Modifiers b1 = new Modifiers();

        b1.methodDefault();

        b1.methodProtected();

        b1.methodPublic();

        //b1.methodPrivate();

    }

}

```

12.FOR EATCH LOOP

```

package CODES;

public class FOREACHLOOP {

    public static void main(String[] args) {

        int a[]={10,20,30,40,50};

        for (int i:a) {

            System.out.println(i);

        }

    }

}

```

13.FOR LOOP

```

package CODES;

public class ForLOOP {

```

```

public static void main (String[]args) {

    for (int i=1;i<=1000;i++)

    {

        System.out.println("Value of i :");

        System.out.println(i);

    }

}

```

14.Modifiers

```

package CODES;

```

```

public class Modifiers {

    //public private protected default >>>modifiers

    int varDefault =10;

    public int varPublic=20;

    protected int varProtected=30;

    private int varPrivate=40;

    //declare all access methods

    void methodDefault()

    {

        System.out.println("Default Access base class");

        System.out.println("Default variable : +varDefault");

    }

    void methodPublic()

```

```

{
    System.out.println("Public Access base class");
    System.out.println("Public variable : +varPublic");
}
void methodProtected()
{
    System.out.println("Protected Access base class");
    System.out.println("Protected variable : +varProtected");
}
void methodPrivate()
{
    System.out.println("private Access base class");
    System.out.println("Private variable : +varPrivate");
}
}
}

```

15.Nested For loop

```
package CODES;
```

```

public class NESTEDFORLOOP {
    public static void main(String[] args) {
        //program to print multiplication of tables in a given range
        int beg=10;
        int end=20;

        for(int i=beg; i<=end;i++)

```

```

        {

            for(int j=1; j<=10;j++)

            {

                System.out.println();

            }

        }

    }

}

```

//for each loop used for it converts array format to normal format

16.PERSON Class

```
package NEWBIGPROGRAMS;
```

```
public class PERSON {
```

```
    // data members          // object to string is super parent
```

```
    private String name;
```

```
    private int income;
```

```
    private String gender;
```

```
    private int age;
```

```
    private int tax;
```

```
    // getter and setter // right click > source > generate select getter and setter
```

```
    public String getName() {
```

```
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getIncome() {
        return income;
    }

    public void setIncome(int income) {
        this.income = income;
    }

    public String getGender() {
        return gender;
    }

    public void setGender(String gender) {
        this.gender = gender;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }

    public int getTax() {
        return tax;
    }

    public void setTax(int tax) {
        this.tax = tax;
    }

    // object method return string representation //
```

```

@Override

public String toString() {

    return "PERSON [name=" + name + ", income=" + income + ", gender=" + gender + ",
age=" + age + ", tax=" + tax

                                + ", getName()" + getName() + ", getIncome()" + getIncome() + ",
getGender()" + getGender()

                                + ", getAge()" + getAge() + ", getTax()" + getTax() + ", getClass()" +
getClass() + ", hashCode()" +

                                + hashCode() + ", toString()" + super.toString() + "]";

}

}

```

17.Switch

```

package CODES;

public class Switch {

    public static void main(String[] args) {

        char x = 'l';

        switch(x)

        {

            case 'l':

            case 'L':

                System.out.println(x+" is a lion");

                break;

        }

    }

}

```

```
    }  
  
}
```

18.While

```
package CODES;
```

```
public class WHILE {  
    public static void main(String[] args) {  
        int i=99;  
        while (i<=1000) {  
            System.out.println(i);  
            i++;  
        }  
    }  
}
```