



## OOP: Part 1

Deadline

Mar 1, 2021, 11:59 PM

## Lecture

100.0%

Score 400.00/400



Intro to OOPS



Correct Statement ●

10.0/10



Classes and Objects



Object Creation ●

10.0/10



Predict the output ●

10.0/10



Find the error ●

10.0/10



Possible output ●

10.0/10



Access Modifiers



Access Modifiers ●

10.0/10



Check for error ●

10.0/10



Predict the output ●

10.0/10



Getters and Setters



Predict the output ●

10.0/10

## Correct Statement

[Send Feedback](#)

Select the correct statement(s).

## Options

- ☒ OOPS refers to using objects in programming ✓
- ☒ A class is a user defined blueprint from which objects are created. ✓
- ☐ Object of same class have different properties.
- ☒ Object is an instance of a class. ✓

[Correct Answer](#)

&lt; PREVIOUS

&gt; NEXT

SUBMIT



## OOP: Part 1

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Select Statement

Classes and Objects

Object Creation 10.0/10

Predict the output 10.0/10

Find the error 10.0/10

Possible output 10.0/10

Access Modifiers

Access Modifiers 10.0/10

Check for error 10.0/10

Predict the output 10.0/10

Getters and Setters

Predict the output 10.0/10

Fill the output 10.0/10

This Keyword

Fill the output 10.0/10

## Object Creation

Send Feedback

Which of the following method can be used to create an object of student class?

### Options

- ☐ Student s1=new Student;
- ☐ Student s1;
- ☒ Student s1=new Student(); ✓
- ☐ Student s1=" ";

Correct Answer





## OOP: Part 1

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## Classes and Objects

Object Creation ● 10.0/10

Predict the output ● 10.0/10

Find the error ● 10.0/10

Possible output ● 10.0/10

Access Modifiers

Access Modifiers ● 10.0/10

Check for error ● 10.0/10

Predict the output ● 10.0/10

Getters and Setters

Predict the output ● 10.0/10

Fill the output ● 10.0/10

This Keyword

Fill the output ● 10.0/10

Keyword ● 10.0/10

## Predict the output

[Send Feedback](#)

What would be the output of the following code?

```
class Student{
    int roll_number;
    String name;
}
class DPS {
    public static void main (String[] args) {
        Student s=new Student();
        s.roll_number=5;
        s.name="Rohit";
        System.out.println(s.roll_number+" "+s.name);
    }
}
```

## Options

☒ 5 Rohit ✓☐ Rohit 5☐ error

Correct Answer





## OOP: Part 1

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Object Creation

Predict the output 10.0/10

Find the error 10.0/10

Possible output 10.0/10

Access Modifiers

Access Modifiers 10.0/10

Check for error 10.0/10

Predict the output 10.0/10

Getters and Setters

Predict the output 10.0/10

Fill the output 10.0/10

This Keyword

Fill the output 10.0/10

Keyword 10.0/10

Constructors

## Find the error

Send Feedback

Which line of the following code would give an error?

```
class Car{
    int year;
    String company_name;
}
class New_Car {
    public static void main (String[] args) {
        Car c=new Car(); //Line 1
        year=2018; //Line 2
        c.company_name="Honda"; //Line 3
    }
}
```

## Options

☐ Line 1☒ Line 2 ✓☐ Line 3☐ No error

Correct Answer

## Solution Description

In line 2 , the year is not a variable in main. So we need to use the object of class Car.



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Predict the output 10.0/10

Find the error 10.0/10

Possible output 10.0/10

Access Modifiers 10.0/10

Access Modifiers 10.0/10

Check for error 10.0/10

Predict the output 10.0/10

Getters and Setters 10.0/10

Predict the output 10.0/10

Fill the output 10.0/10

This Keyword 10.0/10

Fill the output 10.0/10

Keyword 10.0/10

Constructors 10.0/10

Predict the output 10.0/10

## Possible output

[Send Feedback](#)

What can be the possible output of the following code?

```
class Student{
    int roll_no;
    String name;
}
class Test {
    public static void main (String[] args) {
        Student s=new Student();
        System.out.println(s);
    }
}
```

## Options

- ☐ 547a85bc
- ☐ ll@232204a1
- ☒ Student@232204a1 ✓
- ☐ Student@4578ig32

## Correct Answer

## Solution Description

The class is of Type student and it would be followed by a hexadecimal code. So the address would be like Student@..... hexadecimal code. (Option 4 is not a hexadecimal code.)



## OOP: Part 1

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- Possible output
- Access Modifiers
- Access Modifiers 10.0/10
- Check for error 10.0/10
- Predict the output 10.0/10
- Getters and Setters
- Predict the output 10.0/10
- Fill the output 10.0/10
- This Keyword
- Fill the output 10.0/10
- Keyword 10.0/10
- Constructors
- Predict the output 10.0/10
- Predict the output 10.0/10
- Final Keyword

### Access Modifiers

[Send Feedback](#)

Which access modifier can be used to access a variable outside the class and within the package?

#### Options

- ☒ Public ✓
- ☐ Private
- ☒ Default ✓

Correct Answer







## OOP: Part 1

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Access Modifiers

Access Modifiers 10.0/10

Check for error 10.0/10

Predict the output 10.0/10

Getters and Setters

Predict the output 10.0/10

Fill the output 10.0/10

This Keyword

Fill the output 10.0/10

Keyword 10.0/10

Constructors

Predict the output 10.0/10

Predict the output 10.0/10

Final Keyword

Final Keyword 10.0/10

## Check for error

Send Feedback

Would the following code generate any error?

```
class Student{
    private int roll_no;
    String name;
}
class DPS {
    public static void main (String[] args) {
        Student s=new Student();
        s.name="Neha";
        System.out.println(s.name);
    }
}
```

## Options

☐ Yes☒ No ✓

Correct Answer



## OOP: Part 1

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Access modifiers

Check for error 10.0/10

Predict the output 10.0/10

Getters and Setters

Predict the output 10.0/10

Fill the output 10.0/10

This Keyword

Fill the output 10.0/10

Keyword 10.0/10

Constructors

Predict the output 10.0/10

Predict the output 10.0/10

Final Keyword

Final Keyword 10.0/10

Predict the output 10.0/10

## Predict the output

[Send Feedback](#)

What would be the output of the following code?

```
class Mobile{
    private int year;
    String company_name;
}
class new_device {
    public static void main (String[] args) {
        Mobile c=new Mobile();
        c.year=2018;
        c.company_name="Apple";
        System.out.println(c.company_name);
    }
}
```

## Options

☐ Apple☐ No output☒ Error ✓

Correct Answer

## Solution Description

The variable year in Mobile class is private. So it cannot be accessed outside the class. Hence the line, c.year=2018, would give an error.





## OOP: Part 1

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Predict the output

Getters and Setters

Predict the output 10.0/10

Fill the output 10.0/10

This Keyword

Fill the output 10.0/10

Keyword 10.0/10

Constructors

Predict the output 10.0/10

Predict the output 10.0/10

Final Keyword

Final Keyword 10.0/10

Predict the output 10.0/10

Static Keyword

Predict the output 10.0/10

## Predict the output

[Send Feedback](#)

What will be the output of the following code?  
(Considering both the classes are in the same package).

```
class Employee{
    String name;
    private int emp_id;
    public void set_id(int id)
    {
        if(id>0)
            emp_id=id;
        else
            System.out.println("Invalid id");
    }
    public int get_id()
    {
        return emp_id;
    }
}
class office {
    public static void main (String[] args) {
        Employee e=new Employee();
        e.set_id(10);
        System.out.println(e.get_id());
    }
}
```

## Options

☒ 10 ✓☐ 0☐ error

Correct Answer



## OOP: Part 1

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Getters and Setters

 Predict the output 10.0/10 Fill the output 10.0/10

This Keyword

 Fill the output 10.0/10 Keyword 10.0/10

Constructors

 Predict the output 10.0/10 Predict the output 10.0/10

Final Keyword

 Final Keyword 10.0/10 Predict the output 10.0/10

Static Keyword

 Predict the output 10.0/10 Find the error 10.0/10

## Fill the output

[Send Feedback](#)

Fill the output of the following code.(Considering both the classes are in the same package.)

```
class Employee{
    String name;
    private int emp_id;
    public void set_id(int id)
    {
        if(id>0)
            emp_id=id;
        else
            System.out.println("Invalid id");
    }
    public int get_id()
    {
        return emp_id;
    }
    public void set_name(String n)
    {
        name=n;
    }
}
class Office {
    public static void main (String[] args) {
        Employee e=new Employee();
        e.set_id(10);
        e.set_name("Naman");
        System.out.println(e.get_id()+" "+e.name);
    }
}
```

## Answer

Type here

10 Naman



Correct Answer





## OOP: Part 1

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Fill the output



This Keyword



Fill the output

10.0/10



Keyword

10.0/10



Constructors



Predict the output

10.0/10



Predict the output

10.0/10



Final Keyword



Final Keyword

10.0/10



Predict the output

10.0/10



Static Keyword



Predict the output

10.0/10



Find the error

10.0/10



Static Functions



Predict the output

10.0/10

## Fill the output

Send Feedback

What will be the output of the following code?

```
class Test
{
    int a;
    int b;

    public void set(int a, int b)
    {
        b = a;
        this.b = b;
    }

    void display()
    {
        System.out.println("a=" + a + " b=" + b);
    }
}

class T{
    public static void main(String[] args)
    {
        Test object = new Test();
        object.set(10,20);
        object.display();
    }
}
```

## Answer

Type here

a=0 b=10



Correct Answer

## Solution Description

When object.set function is called, the local variables are a and b which are passed on to the function as parameters. a=10,b=20. But a has been assigned to b. That means b comes 10. Now this.b=b sets the variable b of class Test equal to 10 and a remains 0.





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- Fill the output 10.0/10
- Keyword 10.0/10
- Constructors
- Predict the output 10.0/10
- Predict the output 10.0/10
- Final Keyword
- Final Keyword 10.0/10
- Predict the output 10.0/10
- Static Keyword
- Predict the output 10.0/10
- Find the error 10.0/10
- Static Functions
- Predict the output 10.0/10
- Find the error 10.0/10

### Keyword

[Send Feedback](#)

Which keyword is a reference variable that refers to the current object?

### Options

- ☐ object
- ☒ this ✓
- ☐ class
- ☐ private

Correct Answer





## OOP: Part 1

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Keywords

Constructors

Predict the output ● 10.0/10

Predict the output ● 10.0/10

Final Keyword

Final Keyword ● 10.0/10

Predict the output ● 10.0/10

Static Keyword

Predict the output ● 10.0/10

Find the error ● 10.0/10

Static Functions

Predict the output ● 10.0/10

Find the error ● 10.0/10

Fraction class - 1

Fraction class - 2

## Predict the output

[Send Feedback](#)

What will be the output of the following code?

```
class Ninja
{
    Ninja(String name)
    {
        System.out.println("Constructor one " +
name);
    }
    Ninja(String name, int age)
    {
        System.out.println("Constructor two " + name
+ " "+ age);
    }
    Ninja(long id)
    {
        System.out.println("Constructor three " + id);
    }
}

class Student
{
    public static void main(String[] args)
    {
        Ninja geek3 = new Ninja("Dharmesh", 26);
    }
}
```

## Options

- ☐ Constructor one Dharmesh
- ☒ Constructor two Dharmesh 26 ✓
- ☐ Constructor three 26

## Correct Answer

## Solution Description

The constructor with two arguments string and integer is called.





## OOP: Part 1

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- Constructors
- Predict the output 10.0/10
- Predict the output 10.0/10
- Final Keyword
- Final Keyword 10.0/10
- Predict the output 10.0/10
- Static Keyword
- Predict the output 10.0/10
- Find the error 10.0/10
- Static Functions
- Predict the output 10.0/10
- Find the error 10.0/10
- Fraction class - 1
- Fraction class - 2
- Complex Number Class

## Predict the output

[Send Feedback](#)

What will be the output of the following code?

```
class Test
{
    int a;
    int b;
    Test()
    {
        this(10, 20);
        System.out.print("constructor one ");
    }
    Test(int a, int b)
    {
        this.a = a;
        this.b = b;
        System.out.print("constructor two ");
    }
}
class new_test{
    public static void main(String[] args)
    {
        Test object = new Test();
    }
}
```

## Options

- ☐ constructor one
- ☐ constructor two
- ☒ constructor two constructor one
- ☐ constructor one constructor two

## Correct Answer

## Solution Description

When the object of Test class is created, the constructor with no arguments is called. When this(10,20) is encountered, the constructor with two arguments int and int is called because this is the reference of the object. So using this way we can call more than one constructor.





## OOP: Part 1

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Predict the output

Final Keyword

Final Keyword 10.0/10

Predict the output 10.0/10

Static Keyword

Predict the output 10.0/10

Find the error 10.0/10

Static Functions

Predict the output 10.0/10

Find the error 10.0/10

Fraction class - 1

Fraction class - 2

Complex Number Class

Complex Number Problem 80.0/80

Dynamic array class - 1

## Final Keyword

Send Feedback

Select the correct statement(s) about final keyword?

## Options

- ☒ Final variable can be initialized only once and cannot be modified further. ✓
- ☐ We can initialize final variable inside a function.
- ☒ We can initialize final variable inside constructor. ✓
- ☒ Final keyword is a non-access modifier. ✓

Correct Answer



## OOP: Part 1

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Final Keyword

Final Keyword 10.0/10

Predict the output 10.0/10

Static Keyword

Predict the output 10.0/10

Find the error 10.0/10

Static Functions

Predict the output 10.0/10

Find the error 10.0/10

Fraction class - 1

Fraction class - 2

Complex Number Class

Complex Number Problem 80.0/80

Dynamic array class - 1

Dynamic array class - 2

## Predict the output

Send Feedback

What will be the output of the following code?

```
class Pen{
    final int price = 15;
}

public class MCQs {
    public static void main(String[] args) {
        Pen p = new Pen();
        p.price = 20;
        System.out.println(p.price);
    }
}
```

## Options

☐ 15☐ 20☒ Error ✓

Correct Answer

## Solution Description

Since the variable price is final so we cannot update its value.



## OOP: Part 1

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Predict the output ●

10.0/10



Static Keyword



Predict the output ●

10.0/10



Find the error ●

10.0/10



Static Functions



Predict the output ●

10.0/10



Find the error ●

10.0/10



Fraction class - 1



Fraction class - 2



Complex Number Class



Complex Number Problem ●

80.0/80



Dynamic array class - 1



Dynamic array class - 2



Polynomial class hint



Polynomial Class Problem ●

120.0/1

## Predict the output

[Send Feedback](#)

What will be the output of the following code?

```
class Car{
    static int year;
    String company_name;
}
class new_Car {
    public static void main (String[] args) {
        Car c=new Car();
        Car.year=2018;
        c.company_name="KIA";
        Car d=new Car();
        System.out.print(d.year);
    }
}
```

## Options

☐ 0☐ Error☒ 2018 ✓

Correct Answer

## Solution Description

Year is of static type i.e. only one memory block of year is created , same for every object. So, it would print 2018.





## OOP: Part 1

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Predict the output ●

10.0/10



Static Keyword



Predict the output ●

10.0/10



Find the error ●

10.0/10



Static Functions



Predict the output ●

10.0/10



Find the error ●

10.0/10



Fraction class - 1



Fraction class - 2



Complex Number Class



Complex Number Problem ●

80.0/80



Dynamic array class - 1



Dynamic array class - 2



Polynomial class hint



Polynomial Class Problem ●

120.0/1

## Find the error

[Send Feedback](#)

Which line of the following code would generate an error?

```
class Test{
    static int marks;
    void set_marks(int marks)
    {
        this.marks=marks;    //Line 1
    }
}
class MCQ {
    public static void main (String[] args) {
        Test t=new Test();
        t.set_marks(78);    //Line 2
        System.out.print(Test.marks); //Line 3
    }
}
```

## Options

- ☐ Line 1
- ☐ Line 2
- ☐ Line 3
- ☒ No error ✓

## Correct Answer

## Solution Description

There is no error in this code. In this class, there is just a single variable, which is, static variable. Static variables are property of the class, but you can access it through objects. Hence, line 1 and 2 did not generate any error.



## OOP: Part 1

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Predict the output ●

10.0/10



Static Keyword



Predict the output ●

10.0/10



Find the error ●

10.0/10



Static Functions



Predict the output ●

10.0/10



Find the error ●

10.0/10



Fraction class - 1



Fraction class - 2



Complex Number Class



Complex Number Problem ●

80.0/80



Dynamic array class - 1



Dynamic array class - 2



Polynomial class hint



Polynomial Class Problem ●

120.0/1

## Predict the output

[Send Feedback](#)

What would be the output of the following code?

```
class Test
{
    static int a = 10;
    static int b;
    static void fun(){
        b = a * 4;
    }
}
class MCQ{
    public static void main(String[] args)
    {
        Test t=new Test();
        t.fun();
        System.out.print(Test.a+Test.b);
    }
}
```

## Options

☐ 10☐ 20☒ 50 ✓☐ Error[Correct Answer](#)

## Solution Description

When t.fun() is called , a=10 and using this b=40. We print a+b=50.





## OOP: Part 1

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Predict the output

10.0/10



Static Keyword



Predict the output

10.0/10



Find the error

10.0/10



Static Functions



Predict the output

10.0/10



Find the error

10.0/10



Fraction class - 1



Fraction class - 2



Complex Number Class



Complex Number Problem

80.0/80



Dynamic array class - 1



Dynamic array class - 2



Polynomial class hint



Polynomial Class Problem

120.0/1

## Find the error

Send Feedback

Which of the following line(s) would produce an error?

```
class Test
{
    static int a = 10;
    int b = 20;
    static void fun1()
    {
        a = 20;           //Line 1
        b = 10;           //Line 2
        fun2();           //Line 3
        System.out.print(this.b); //Line 4
    }
    void fun2()
    {
        System.out.println("from m2");
    }
}
class MCQ{
    public static void main(String[] args)
    {
        Test.fun1();
    }
}
```

## Options

☐ Line 1☒ Line 2 ✓☒ Line 3 ✓☒ Line 4 ✓

Correct Answer

## Solution Description

Line 2: static functions cannot use non-static variables. Line 3: Static function cannot call non-static function. Line 4: this or super keyword cannot be used inside a static function.