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 Online Exams
Sri Lanka Institute of Information Technology

Question 18
Not yet answered
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Flag question

Complete the following code so that it compile successfully and prints the output as *onethree*

```
String s = "Hello";  
String t = new String(s);  
  
if("Hello".equals(s)) {  
    System.out.print("one");  
}  
  
if(t == s) {  
    System.out.print("two");  
}  
  
if(t.equals(s)) {  
    System.out.print("three");  
}  
  
==  
    equals  
==
```

```
class test {  
    public static void main(String args[]) {  
        String s = "Hellow";  
        String t = new String(s);  
        if ("Hellow".equals(s)) {  
            System.out.print("one");  
        }  
        if (t == s) {  
            System.out.print("two");  
        }  
        if (t.equals(s)) {  
            System.out.print("three");  
        }  
    }  
}
```

Complete the following code so that it compiles successfully and prints the output as abbacca

```
StringBuilder sb = new StringBuilder();
```

```
sb.Append("aaa").insert(1, "bb").insert(4, "ccc");
```

```
System.out.println(sb);
```

answer: Append, insert, 4

Question 20
Not yet answered
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What is the output of the following program?

```
1 public class Cat {  
2     public String name;  
3  
4     public void parseName() {  
5         System.out.print("1");  
6         try {  
7             System.out.print("2");  
8             int x = Integer.parseInt(name);  
9             System.out.print("3");  
10        } catch (NullPointerException e) {  
11            System.out.print("4");  
12        }  
13        System.out.print("5");  
14    }  
15    public static void main(String [] args) {  
16        Cat felix = new Cat();  
17        felix.name = "Felix";  
18        felix.parseName();  
19        System.out.print("6");  
20    }  
21 }
```

Select one:

- ☐ a. 12456
- ☒ b. 12, followed by a stack trace for a NumberFormatException
- ☐ c. 124, followed by a stack trace for a NumberFormatException
- ☐ d. 1256
- ☐ e. 1256, followed by a stack trace for a NumberFormatException

12Exception in thread "main" java.lang.NumberFormatException:

```
class Cat {  
    public String name;  
  
    public void parseName() {  
        System.out.print("1");  
        try {  
            System.out.print("2");  
            int x = Integer.parseInt(name);  
            System.out.print("3");  
        } catch (NullPointerException e) {  
            System.out.print("4");  
        }  
        System.out.print("5");  
    }  
  
    public static void main(String args[]) {  
        Cat felix = new Cat();  
        felix.name = "Felix";  
        felix.parseName();  
        System.out.print("6");  
    }  
}
```

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ESSAY QUESTIONS
FEEDBACK QUEST
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Question 17

Not answered
Marked out of 10

Flag question

What is the output of given code?

```
public class Test {  
    public static void main(String[] args) {  
        StringBuilder sb = new StringBuilder("I love java");  
        sb.substring(0,9);  
        sb=sb.reverse();  
        System.out.println(sb);  
    }  
}
```

Select one:

- ☐ I love java
- ☐ I love jav
- ☐ aj evol i
- ☒ avaj evol i
- ☐ vj evol i

public class test {

```
    public static void main(String args[]) {  
        StringBuilder sb = new StringBuilder("I love java");  
        sb.substring(0, 9);  
        sb = sb.reverse();  
        System.out.println(sb);  
    }  
}
```

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Question 20

Not answered
Marked out of 10

Flag question

What is the result of the following code?

```
1 int x = 5, y = 10;  
2 boolean b = x < 0;  
3 if(b = true) {  
4     System.out.print(x);  
5 }  
6 else {  
7     System.out.print(y);  
8 }  
9
```

```
public class test {  
    public static void main(String args[]) {  
        int x = 5, y = 10;  
        boolean b = x < 0;  
  
        if (b = true) {  
            System.out.print(x);  
        } else {  
            System.out.print(y);  
        }  
    }  
}
```

Select one:

- ☒ Compiler error on line 2
- ☒ 5
- ☐ 10
- ☐ The code compiles but there is no output
- ☐ Compiler error on line 3



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Select the method/s which are incorrectly declared inside the Writer class.

```
public abstract class Writer {  
    public void method1();  
    public final void method2() {};  
    public static void method3() {};  
    public abstract static void method4();  
    public abstract final void method5();  
}
```

Select one or more:

- ☒ method5
- ☒ method4
- ☒ method2
- ☒ method3
- ☒ method1

```
public abstract class Writer{  
    public void method1();  
    public final void method2(){};  
    public static void method3(){};  
    public abstract static void method4(){};  
    public abstract final void method5();  
}
```



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answered
out of
question

What is the result of the following code?

```
1 byte twelve = -12;  
2 Byte b1 = new Byte(twelve);  
3 Byte b2 = new Byte(twelve);  
4 if(b1.byteValue() == b2) {  
5     System.out.println("equal");  
6 }  
7 else {  
8     System.out.println("not equal");  
9 }  
10
```

Select one:

- ☒ Line 4 generates a compiler error.
- ☐ An exception is thrown on line 6.
- ☐ equal
- ☐ Line 1 generates a compiler error.
- ☐ not equal



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Question 14

Not yet answered

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Flag question

Imagine there are three classes as "Person", "Employee" and "Teacher". All "Teacher" objects are both "Employees" and "Persons" too. You are supposed to implement this scenario using Java language and Object oriented concepts. Already the "Teacher" is inherited from "Employee" class using extends.

The Object Oriented Concept when a class has two or more extending classes is: interface

"Teacher" can be implemented by extending "Person" class too using JAVA.

Hence,

Person should be a class and Employee should be an interface.



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Select correct answers about the following code

```
class Test{
    int value;
    int getValue(){
        return value;
    }
    abstract void method1();
}
```

Select one or more:

- ☒ Test class must be declared as an abstract class
- ☐ Test class is not useful since Test class can not be instantiated
- ☒ Every abstract method in the Test class should be overridden by the child classes
- ☐ This program compiles and runs with no errors
- ☐ Test should be declared as an interface (not as a class)

What is the output of below program?

```
public class Example{
    static int a=10;
    public static void main(String args[]){
        Example s1= new Example();
        System.out.print("s1.a value :"+s1.a);
        s1.a=20;
        System.out.print("s1.a value :"+s1.a);
    }
}
```


Answer:

```
public class Example {
    static int a = 10;

    public static void main(String args[]) {
        Example s1 = new Example();
        System.out.println("s1.a value : " + s1.a);
        s1.a = 20;
        System.out.println("s1.a value : " + s1.a);
    }
}
```

//output
s1.a value : 10
s1.a value : 20

Answer : 1020

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Question 18
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Which design pattern works on data and action have taken based on data provided?

Select one:

- ☐ Template
- ☒ Command Pattern
- ☐ Singleton
- ☐ Strategy pattern
- ☐ Facade

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FEEDBACK QUESTIONS


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Question 14
Not yet answered
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Flag question

Imagine there are three classes as "Person", "Employee" and "Teacher". All "Teacher" objects are both "Employees" and "Persons" too. You are supposed to implement this scenario using Java language and Object oriented concepts. Already the "Teacher" is inherited from "Employee" class using extends.

The Object Oriented Concept when a class has two or more extending classes is Multiple Inheritance.

"Teacher" can not be implemented by extending "Person" class too using JAVA.

Hence ,

Person should be an interface and Employee should be a class.

Question 13
Not yet answered
Marked out of 1.00
Flag question

Given the following class definition:

```

public class PrintA extends Thread {
    public void run() {
        System.out.print("A");
    }
}

```

```

public class PrintA extends Thread {
    public void run() {
        System.out.print("A");
    }
}

```

which of the statement is true about the following program?

```

public class PrintB {
    public static void main(String [] args) {
        Thread a = new PrintA();
        a.start();
        System.out.print("B");
    }
}

```

```

public class PrintB {
    public static void main(String args[]) {
        Thread a = new PrintA();
        a.start();
        System.out.print("B");
    }
}

```

Select one:

- ☐ The output varies and is either AB or BA
- ☒ The output is always AB
- ☐ The program does not compile
- ☐ The output is always B
- ☐ The program generates an exception at runtime

The output is always BA

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ESSAY QUESTION

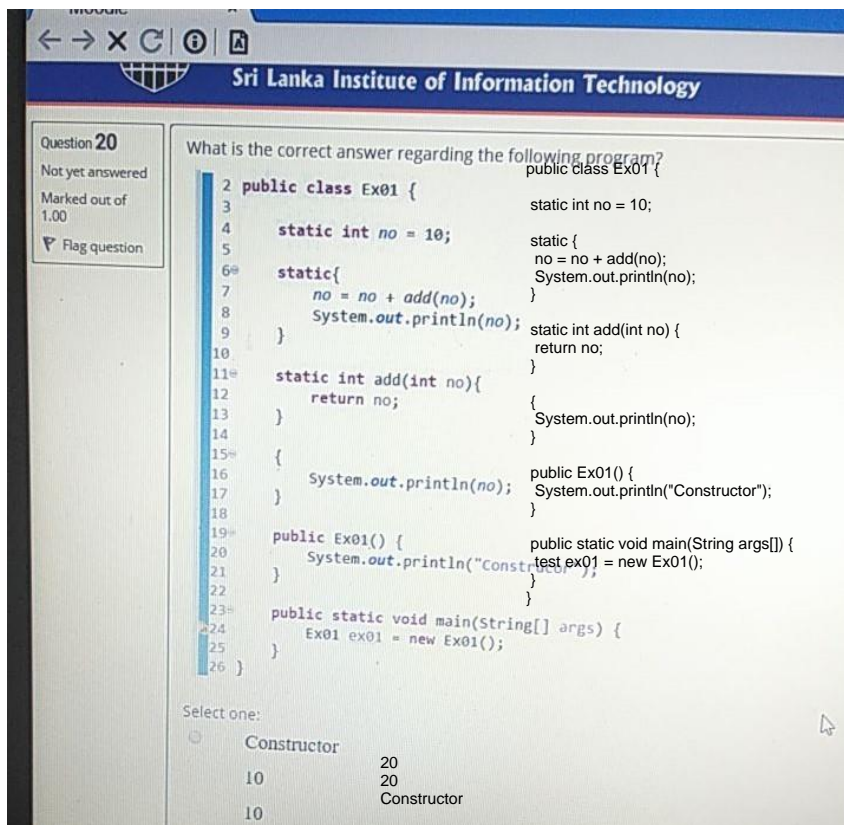
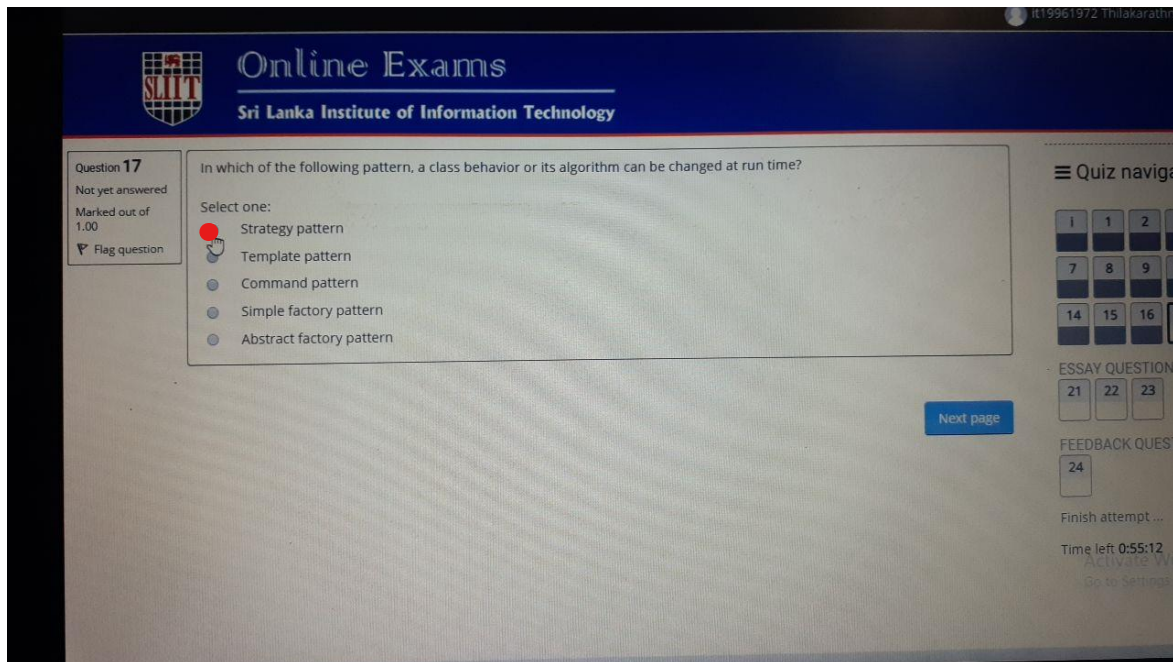
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FEEDBACK QUESTIONS

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Answer – The output is always AB X



Answer is 20

Moodle x

→ X ↺ ⓘ A



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Question 17

Not yet answered

Marked out of 10

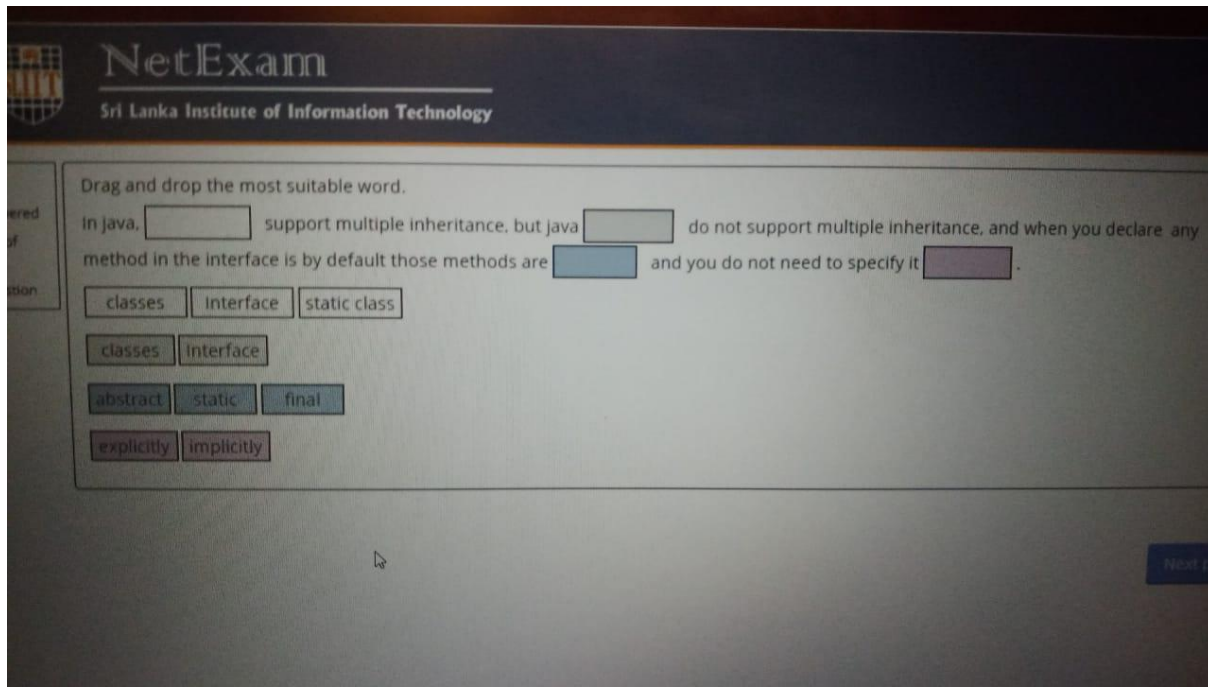
Flag question

What is the most suitable design pattern which describes the following statement?
Encapsulate a request as an object, thereby letting you parametrize clients with different and support the undoable operation

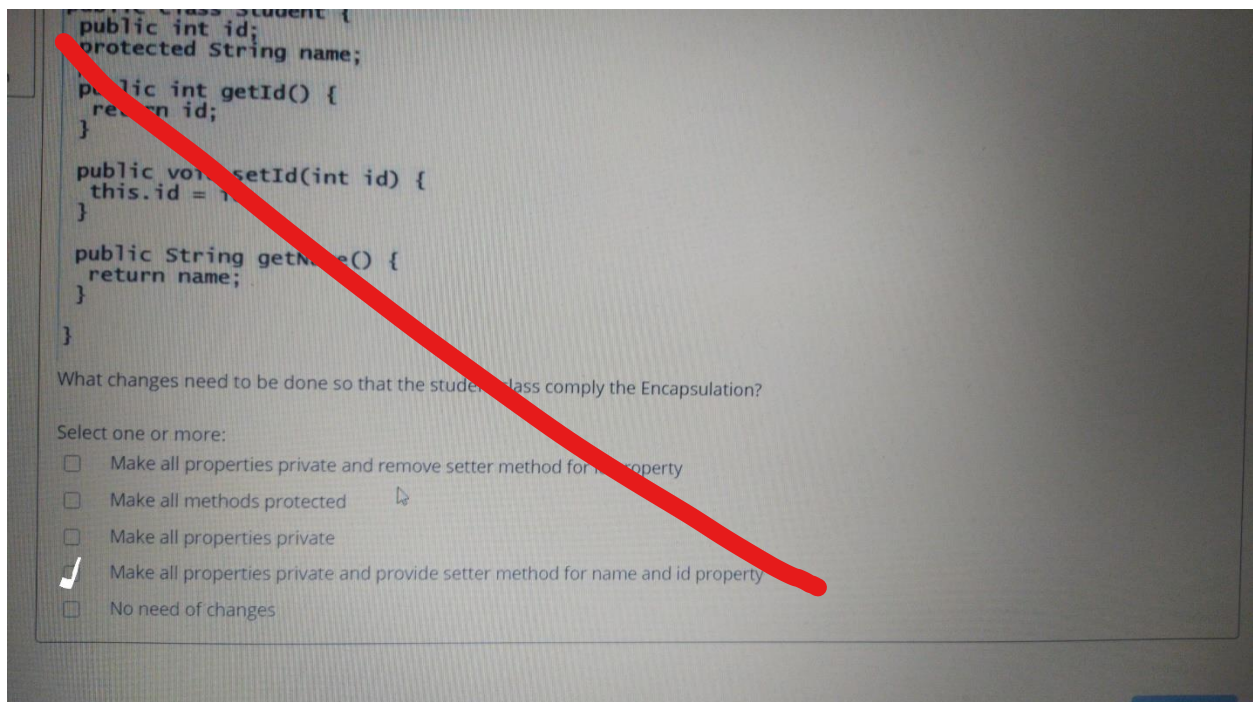
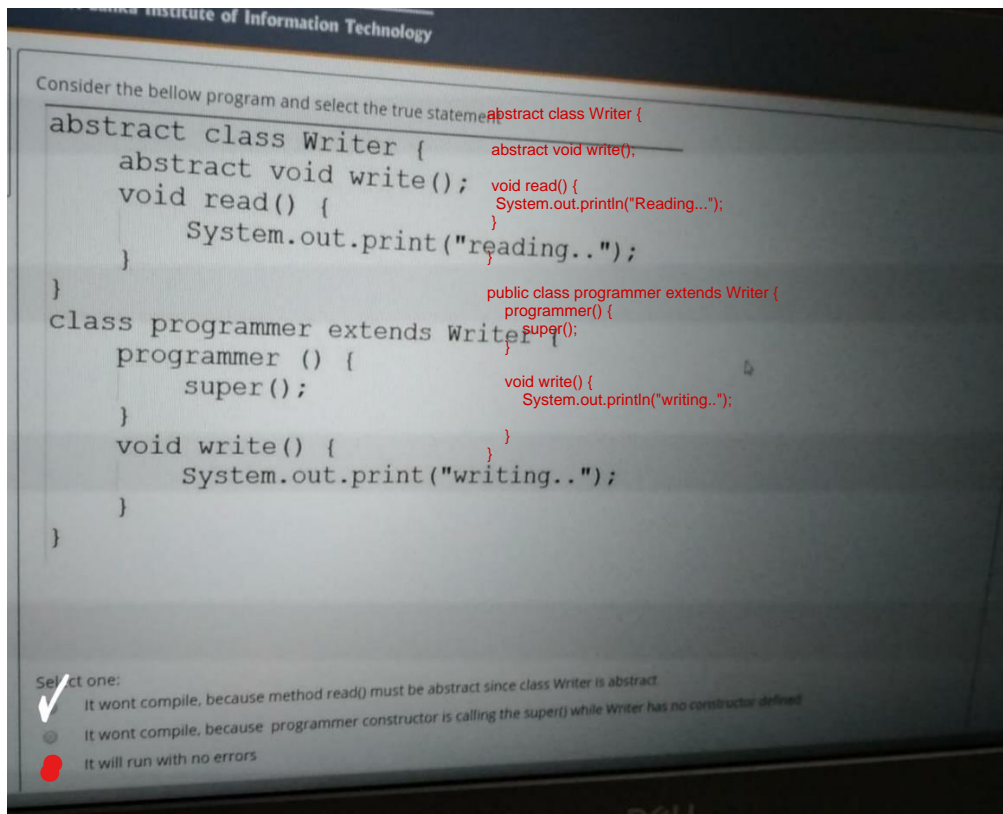
Select one:

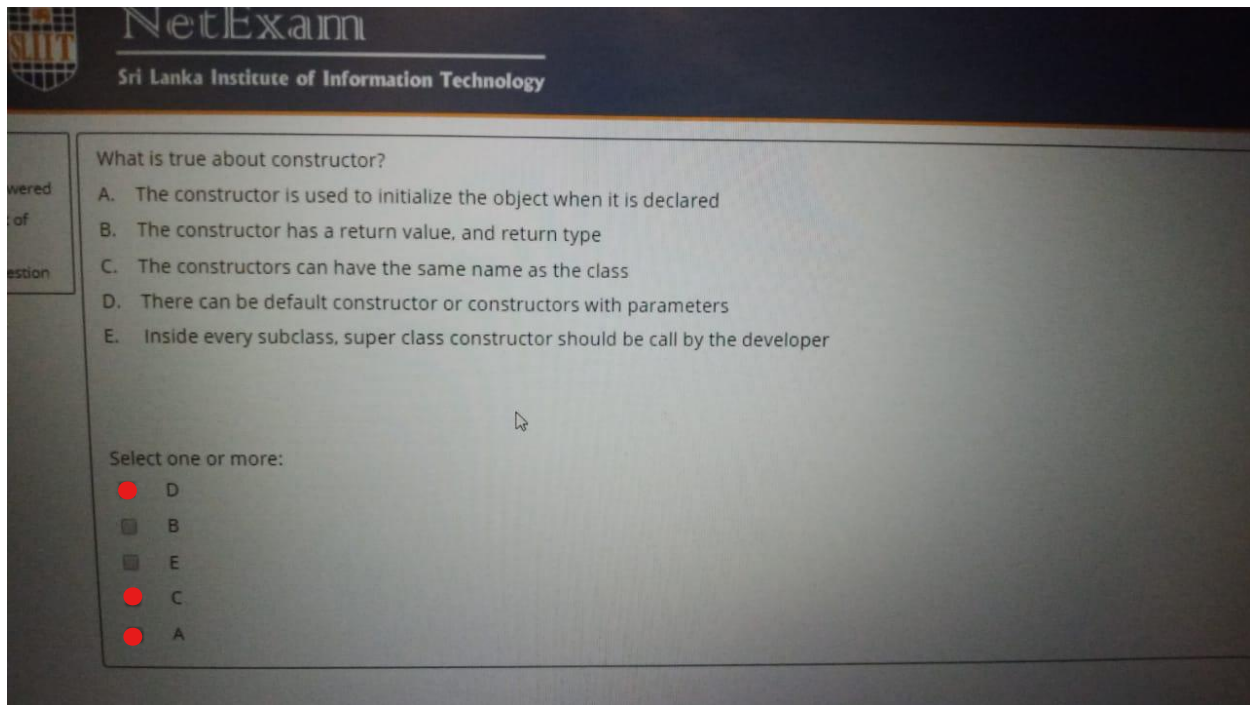
- ☐ Adapter pattern
- ☐ Template pattern
- ☐ Strategy pattern
- ☒ Command pattern
- ☐ Bridge pattern

Answer is Command Pattern

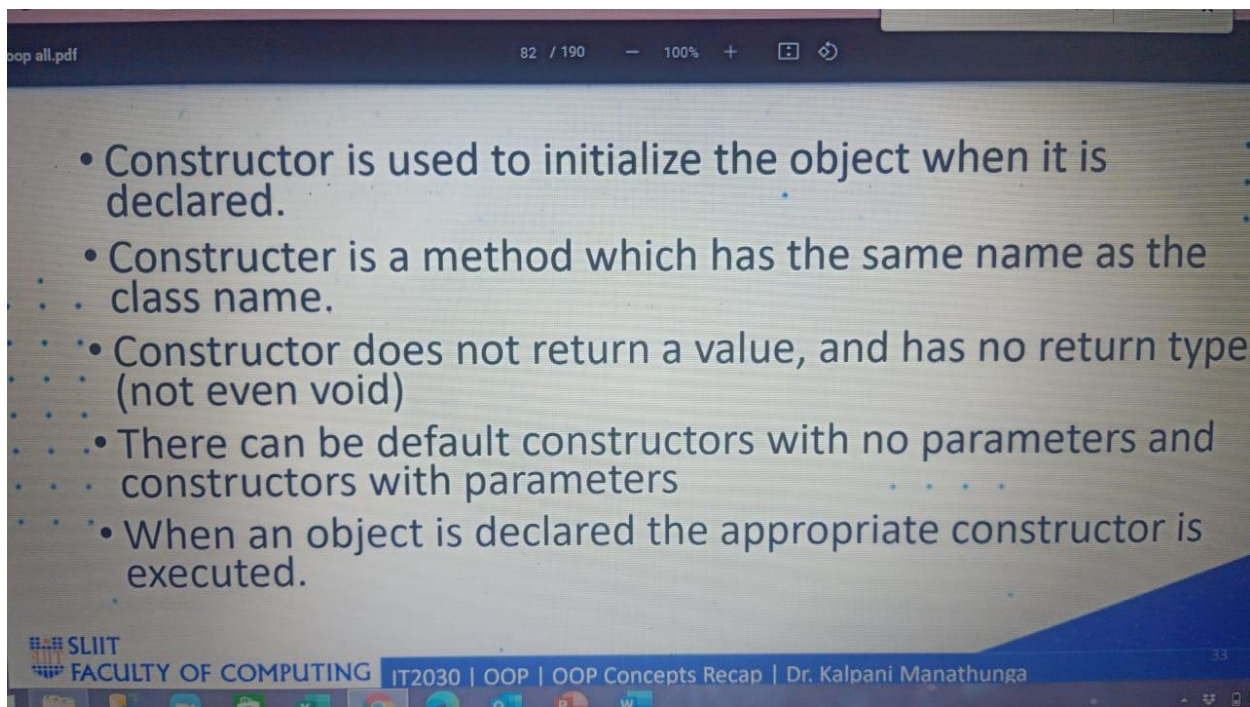


Answer – classes, interface, static, implicitly





Answer – A,D,E ✖



Examine the below code.

```
public class Student {  
    public int id;  
    protected String name;  
  
    public int getId() {  
        return id;  
    }  
  
    public void setId(int id) {  
        this.id = id;  
    }  
  
    public String getName() {  
        return name;  
    }  
}
```

What changes need to be done so that the student class comply the Encapsulat

Select one or more:

- ☒ Make all properties private
- ☐ No need of changes
- ☒ Make all properties private and provide setter method for name and id prope
- ☐ Make all methods protected
- ☐ Make all properties private and remove setter method for id property