Not yet answered

Marked out of 2.50

```
public class Hotel extends Travel {
   private double cost;

   public Hotel(double cost) {
      super();
   }

   public int getCost(){}

   public boolean equals(Object h) {}

   public String toString() {}
}
```

What Java principle is being demonstrated by the following lines of code? public boolean equals(Object h) {} public String toString() {}

## Select one:



Method Overriding

- B. Method Overloading
- C. Instance variables
- O D. Parameter Passing

Not yet answered

Marked out of 5.00

```
public class Hotel extends Travel {
    private double cost;

    public Hotel(double cost) {
        super();
    }

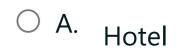
    public int getCost(){}

    public boolean equals(Object h) {}

    public String toString() {}
}
```

What is the name of the superclass in the code example above?

Select one:



O B. Class

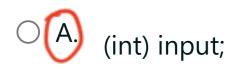


O D. Constructor

Question 3	
Not yet answered	
Marked out of 5.00	

Given a double variable, double input = 3.1;, how would you cast the double variable to an integer?

# Select one:



O B. Double.parseDouble(input);

C. Integer.toString(input);

O D. (double) input;

Question	4
----------	---

Marked out of 2.50

```
String type = "reptile";
int legs = 6;
boolean dangerous = true;
String pattern = "striped";
    if (type.equals("mammal")) {
      if (legs == 4) {
        if (dangerous == true) {
           if (pattern.equals("solid")) {
             lion();
           } else {
             tiger();
        } else {
           cat();
      } else {
        System.out.println("Not classified");
    } else if (type.equals("reptile")) {
      if (legs == 4) {
        if (dangerous == true) {
           crocodile();
         } else {
          lizard();
      } else if (legs == 0) {
        snake();
      } else {
        System.out.println("Not Classified");
    } else if (type.equals("insect")) {
      if (legs == 8) {
        spider();
      } else if (legs == 6) {
        beetle();
      } else {
         System.out.println("Not Classified");
    } else {
      System.out.println("Not Classified");
```

Based on the code above, what is the correct description for the if statement given below?

```
if (type.equals("reptile")) {
   if (legs == 4) {
     if (dangerous == true) {
        crocodile();
} }
```

- A. If the type is equal to the value of "reptile", and if the number of legs is equal to four, and if the boolean variable dangerous is not set, then call the crocodile method.
- (B) If the type is equal to the value of "reptile", and if the number of legs is equal to four, and if the boolean variable dangerous is set to true, then call the crocodile method.
- O. If the type is equal to the value of "reptile", and if the number of legs is equal to six, and if the boolean variable dangerous is set to false, and if the pattern variable is set to "solid", then do not call the crocodile method.
- O D. If the type is equal to the value of "reptile", and if the number of legs is equal to four, and if the boolean variable dangerous is set to false, then call the crocodile method.

Not yet answered

Marked out of 5.00

```
public class Hotel extends Travel {
  private double cost;
  public Hotel(double cost) {
      super();
  public int getCost(){}
  public boolean equals(Object h) {}
  public String toString() {}
```

What type of variable is the following code?

private double cost;

## Select one:



(A.) Instance variable

- O B. Local variable
- C. Static variable
- O D. Public variable

7/24, 4:07 PM	Mock Exam 2024   Learning Mall Core
Question 6	
Not yet answered	
Marked out of 2.50	
Given the String input below, how would we produce t	ha autnut "Evam"?
	ne output Exam :
String input = "CPT105 Exam Today";	
Select one:	
A. input.substring(0,6);	
OB. input.substring(6, 11);	
○C.) input.substring(7, 11);	
input.substring(7, 11),	
$\cap$ D	
O D. input.substring(7);	
Question 7	
Not yet answered	
Marked out of 2.50	
We wish to create a method named calculate that will r	receive an integer and a double as arguments and return an integer. Which method
header is correct?	
Select one:	
○ A. public static double calculate(double a,b){	
public static adable calculate (adable a/b) (	
public static int calculate(int a, double b) {	
C. public static int calculate(int a, int b);	
D. public static void calculate(int a, double b){	

```
Question 8

Not yet answered

Marked out of 50.00
```

You are required to fill 6 blocks to implement the following Java project. The project contains two classes: Bicycle and MountainBike, and MountainBike is a subclass of Bicycle:

```
Test Case:
```

```
public class Test {
    public static void main(String args[])
         MountainBike mb = new MountainBike( gear: 3, speed: 100, startHeight: 25);
         System.out.println(mb.toString());
// base class
  // the Bicycle class has two fields
  public int gear;
  public int speed;
  // the Bicycle class has one constructor
  public Bicycle(int gear, int speed)
  // the Bicycle class has three methods
  public void applyBrake(int decrement)
    speed -= decrement;
  public void speedUp(int increment)
    speed += increment;
  // toString() method to print info of Bicycle
  public String toString()
    return ("No of gears are " + gear + "\n"
         + "speed of bicycle is " + speed);
```

```
12/17/24, 4:07 PM
      class MountainBike
        // the MountainBike subclass adds one more field
        public int seatHeight;
        // the MountainBike subclass has one constructor
        public MountainBike(int gear, int speed,
                    int startHeight)
                          (gear, speed);
           seatHeight = startHeight;
        // the MountainBike subclass adds one more method
        public void setHeight(int newValue)
           seatHeight = newValue;
        @Override public String
           return (super.toString() + "\nseat height is "
                + seatHeight);
```

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Marked out of 2.50

```
String type = "reptile";
int legs = 6;
boolean dangerous = true;
String pattern = "striped";
    if (type.equals("mammal")) {
      if (legs == 4) {
        if (dangerous == true) {
           if (pattern.equals("solid")) {
             lion();
           } else {
             tiger();
         } else {
           cat();
      } else {
         System.out.println("Not classified");
    } else if (type.equals("reptile")) {
      if (legs == 4) {
         if (dangerous == true) {
           crocodile();
         } else {
           lizard();
      } else if (legs == 0) {
         snake();
      } else {
         System.out.println("Not Classified");
    } else if (type.equals("insect")) {
      if (legs == 8) {
        spider();
      } else if (legs == 6) {
         beetle();
      } else {
         System.out.println("Not Classified");
    } else {
      System.out.println("Not Classified");
```

When this code is run, what method is called?

Select one:

- A. The tiger() method is called.
- O B. The beetle() method is called.
- No method is called, but "Not Classified" is displayed.
- O D. The cat() method is called.

## Question 10

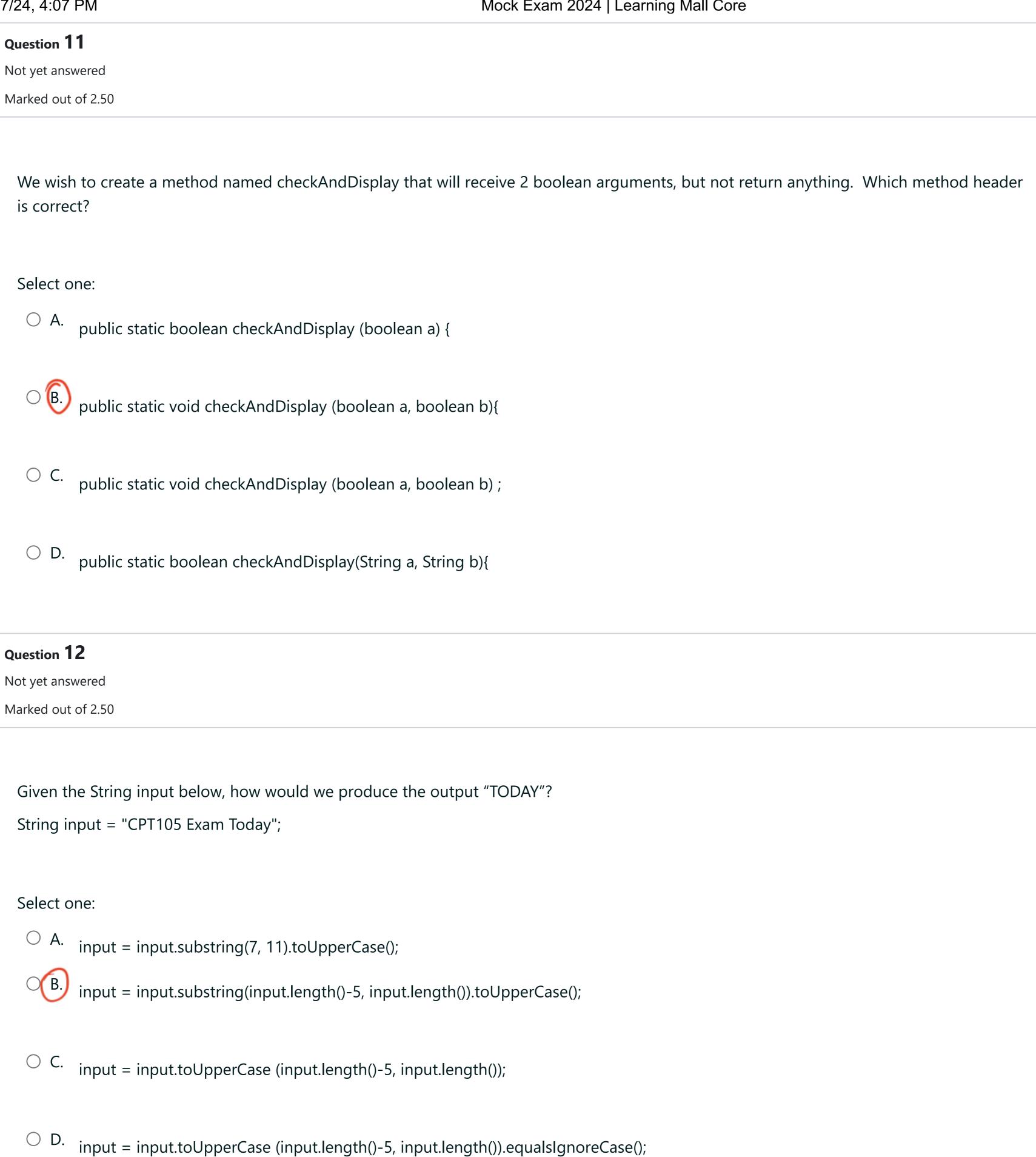
Not yet answered

Marked out of 2.50

[B]
private **int** getFullNum (int idNumber){
}

Looking at the code given here, what is represented by B?

- Access modifier for the method
- O B. Argument or parameter to the method
- C. Return value for the method
- Return type for the method



Question	1	3
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Marked out of 2.50

```
String type = "reptile";
int legs = 6;
boolean dangerous = true;
String pattern = "striped";
    if (type.equals("mammal")) {
      if (legs == 4) {
        if (dangerous == true) {
           if (pattern.equals("solid")) {
             lion();
           } else {
             tiger();
         } else {
           cat();
      } else {
         System.out.println("Not classified");
    } else if (type.equals("reptile")) {
      if (legs == 4) {
         if (dangerous == true) {
           crocodile();
         } else {
           lizard();
      } else if (legs == 0) {
        snake();
      } else {
         System.out.println("Not Classified");
    } else if (type.equals("insect")) {
      if (legs == 8) {
        spider();
      } else if (legs == 6) {
         beetle();
      } else {
         System.out.println("Not Classified");
    } else {
      System.out.println("Not Classified");
```

Another way to write the if statements above is to use multiple condition if statements. If we keep the condition values the same, what code will correctly call the cat() method?

- $\bigcirc$  A. if (type.equals("mammal") && legs == 4) {
- $\bigcirc$  B. if (type == "mammal" && legs == 4 && dangerous==true) {
- if (type.equals("mammal") && legs == 4 && dangerous == false) {
- $\bigcirc$  D. if (type.equals("mammal") && legs == 4 && dangerous) {

Not yet answered

Marked out of 2.50

```
public class Hotel extends Travel {
    private double cost;

    public Hotel(double cost) {
        super();
    }

    public int getCost(){}

    public boolean equals(Object h) {}

    public String toString() {}
}
```

What does the following line of code do? super();

- A. A new Hotel object is created
- The constructor of the Travel object is called
- C. The constructor of the Hotel object is called
- O D. The variables are reset

Not yet answered

Marked out of 2.50

```
double total = 100;
while (total<5){
  total = total -10;
}
System.out.println(total);</pre>
```

This while loop will run 0 times. Why?

- A. The double variable is not declared.
- B. The use of curly brackets is not correct.
- $^{\circ}$  C. The condition should be <= 5.
- The condition is never true.

Not yet answered

Marked out of 2.50

```
public class Hotel extends Travel {
    private double cost;

    public Hotel(double cost) {
        super();
    }

    public int getCost(){}

    public boolean equals(Object h) {}

    public String toString() {}
}
```

What Java principle does the following code demonstrate:

private double cost;
public int getCost(){}

- A. Method overloading
- O B. Inheritance
- C Encapsulation
- O D. Shared variables



Marked out of 2.50

What Java Class would you use to calculate the difference between dates?

#### Select one:



The Period Class

- O B. The Date Class
- C. The Duration Class
- O D. The getDate() Class

## Question 18

Not yet answered

Marked out of 2.50

System.out.println("Value is " + i); counterDisplay(i);

How many times will this for loop run?

- A. 5 times.
- OB) 4 times.
- O C. 1 time.
- O D. Will not run.