Conditionals and Loops
Deadline
Feb 14, 2021, 11:59 PM

Lecture
100.0%

Score 320.00/320

- Relational & Logical Operators
- Error in code •   10.0/10
- Find the output •   10.0/10
- Predict the output •   10.0/10
- Predict the output •   10.0/10
- Basics of Conditionals
- Find output •   10.0/10
- Find output •   10.0/10
- Even Odd Question
- Find the output •   10.0/10
- Figure out the output •   10.0/10
- What will be the output •   20.0/20
- Conditionals and Operators

Error in code
Send Feedback

What is the error in this code?

```
byte b = 50;
b = b * 50;
```

Options

- ○ b can not contain value 2500, limited by its range.
- ● * operator has converted b * 50 into int, which can not be converted to byte without casting. ✔
- ○ b can not contain value 50.
- ○ No error in this code

Correct Answer

Solution Description
####In 2nd statement, b is multiplied with 50 where b is byte variable and 50 is an integer. So after the multiplication, result comes as an integer value which is 2500. Now we are trying to assign this integer to a byte variable, which will cause the error.

PREVIOUS   NEXT   SUBMIT

Conditionals and Loops

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Find the output

Send Feedback

```java
public class Solution{
    public static void main(String [] args)  {
        double a = 6 / 4;
        int b  = 6 / 4;
        double c = a + b;
        System.out.println(c);
    }
}
```

Options

○ 3.0

○ 1.5

● 2.0 ✔

○ 2.5

Correct Answer

Solution Description

####When 6 / 4 is performed, both the operands of / are integer. Hence answer will be an int i.e. 1. When we store it in a (which is double), value of a will be 1.0 and value of b will be 1. Thus a + b will be 2.0.

Establishing secure connection...

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Predict the output
Send Feedback

```java
public class  Solution{
    public static void main(String [] args)  {
        double a = 55.5;
        int b = 55;
        a = a % 10;
        b = b % 10;
        System.out.println(a + " " + b);
    }
}
```

Options

○ 5 5

● 5.5 5 ✔

○ 6 5

○ None of these

Correct Answer

Solution Description

####% operator gives remainder. So a % 10 will give us 5.5 and b % 10 will give us 5. Hence output is : 5.5 5

Conditionals and Loops

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Predict the output

Send Feedback

```java
public class Solution {
    public static void main(String [] args) {
        int var1 = 5;
        int var2 = 6;
        System.out.print(var1 > var2);
    }
}
```

Options

- ○ true
- ● false ✔
- ○ 0
- ○ 1

Correct Answer

Solution Description

####> is a logical operator. So it will give the result as true or false only. var1 is not greater than var2, hence result is false.

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Find output
Send Feedback

Find the output of the following code:

```
public static void main(String args[])
{
   int a=10,b=15;
   if(a>b)
   {
      System.out.print("a ");
   }
   else
   {
      System.out.print("b ");
   }
   System.out.print("is greater");
}
```

Options

- ○ a
- ○ b
- ○ a is greater
- ● b is greater ✔

Correct Answer

Solution Description
"is greater" is written outside if-else so it would always print

Conditionals and Loops
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Basics of Conditionals

Find output ●   10.0/10

Find output ●   10.0/10

Even Odd Question

Find the output ●   10.0/10

Figure out the output ●   10.0/10

What will be the output ●   20.0/20

Conditionals and Operators

Positive Negative ●   10.0/10

Find the output ●   10.0/10

Find the output ●   10.0/10

Nested if else and If-else if-else

Find the output ●   10.0/10

Find Character Case ●   40.0/40
✋ 2 Doubt(s) asked

Loop

Find output
Send Feedback

Find the output of the following code:

```
int a=50;
if(a>10)
{
    System.out.print("Coding");
}
else(a>20)
{
    System.out.print("Ninjas");
}
```

Options

○ Coding

○ Ninjas

○ CodingNinjas

● Compile time error ✔

Correct Answer

Solution Description
else (a>20) is wrong syntax. We cannot use condition after else.

Conditionals and Loops
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Find the output
Send Feedback

```
 public static void main(String args[])
 {
      int x = 5;
      if (x < 6)
         System.out.print("Hello ");
     if(x == 5){
         System.out.print("Hi ");
      }
      else{
         System.out.print("Hey ");
      }
 }
```

Options

○ Hello

○ Hi

● Hello Hi ✔

○ Hello Hey

Correct Answer

Solution Description
####As x is equal to 5, it enters in first if condition and prints "Hello". After that, second if condition will be checked and that is true again, so it will next print "Hi". Else part will be skipped.

‹ PREVIOUS   › NEXT   ⟳ SUBMIT

Conditionals and Loops
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Figure out the output
Send Feedback

```java
public static void main(String[] args) {
    int x = 15;
    if(x <= 15){
        System.out.print("Inside if ");
    }else if(x == 15){
        System.out.print("Inside else if ");
    }
    System.out.println(x);
}
```

Options

○ Inside if

○ 15

● Inside if 15 ✔

○ Inside if Inside else if 15

Correct Answer

Solution Description
####First if condition will be checked first, and it evaluates to true. Hence, the statement inside if will be executed, so it will print "Inside if ". ####After that, else if part will be skipped. Because in if-else statements, once a condition is satisfied remaining all the conditions are skipped without evaluation. ####After exit from if-else statement, the last print statement will be executed. Hence it will next print value of x i.e. 15. ####So the output is : "Inside if 15"

ASK/VIEW DOUBT

Conditionals and Loops
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What will be the output
Send Feedback

```
public static void main(String args[])
{
    int var1 = 5;
    int var2 = 6;
    if ((var2 = 1) == var1)
        System.out.print(var2);
    else
        System.out.print(var2 + 1);
}
```

Options

○ 7

○ 1

🔴 2 ✔

○ 6

Correct Answer

Solution Description
####Inside if condition, we are actually assigning 1 to var2 and then comparing it with var1. So, after assignment, var2 becomes equal to 1 and then we are comparing it with var1 whose value is 5. Both are not equal, hence else part will be executed. ####So the output will be 2, as var2 was updated to value 1 in the if condition.

‹ PREVIOUS   › NEXT   SUBMIT

Conditionals and Loops
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Positive Negative

Send Feedback

Which option can be used to check out of two numbers one is positive and the other is negative (Numbers be a and b).

Options

○ a<0&&b>0

○ a>0&&b<0

○ a<0||b<0

● a*b<0 ✔

Correct Answer

Conditionals and Loops

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Conditionals and Operators

Positive Negative ●   10.0/10

Find the output ●   10.0/10

Find the output ●   10.0/10

Nested if else and If-else if-else

Find the output ●   10.0/10

Find Character Case ●   40.0/40
  ✋ 2 Doubt(s) asked

Loop

Number of hello ●   10.0/10

Number of hello 2 ●   10.0/10

Sum of N Numbers

Same output ●   10.0/10

Fahrenheit to Celsius Table ●   40.0/40

Check Primality

Primality Check ●   10.0/10
  ✋ 1 Doubt(s) asked

Find the output

Send Feedback

Find the output of the following code:

```
public static void main (String[] args) {
    int a=50;
    int b=Integer.MIN_VALUE;
    if(a/0==b)
    {

        System.out.println("Hello");
    }
    else
    {
        System.out.println("Hi");
    }
}
```

Options

○   Hello

○   Hi

○   Compile time error

●   Run time error ✔

Correct Answer

Solution Description
The syntax of the code is correct but on execution dividing a number by zero gives a run time error.

‹ PREVIOUS   › NEXT   ↻ SUBMIT

Conditionals and Loops
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Find the output
Send Feedback

Find the output of the code :

```java
public static void main (String[] args) {
int a=50,b=20;
if(a>b)
{
    if(a>100)
        System.out.println("Ace");
    if(b<100)
        b=50;
}
else if(a==b)
{
    System.out.println("King");
}
else
{
    System.out.println("Queen");
}
}
```

Options

🔴 No output ✔

⚪ King

⚪ Queen

⚪ Ace

Correct Answer

Solution Description

(a>b) is true,So we go inside the if. (a>100) is false. (b<100) is true,so it is executed and b is updated to 50. But no print statement is executed hence no output.

PREVIOUS   NEXT   SUBMIT

Conditionals and Loops
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Find the output
Send Feedback

What will be the output of the following code:

```
public static void main (String[] args) {
    int i=0;
    while(i<10)
    {
        i=i+1;
        System.out.print(i);
        i=i+1;
    }
}
```

Answer

Type here
13579   ✓

Correct Answer

Conditionals and Loops
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2 Doubt(s) asked

Loop

Number of hello ●   10.0/10

Number of hello 2 ●   10.0/10

Sum of N Numbers

Same output ●   10.0/10

Fahrenheit to Celsius Table ●   40.0/40

Check Primality

Primality Check ●   10.0/10
1 Doubt(s) asked

Return Keyword

Find the output ●   10.0/10

Scope of Variables

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

Number of hello

Send Feedback

The number of Hello printed on the screen for the following code will be:

```
public static void main (String[] args) {
    int x=5;
    int y=5;
    while((x=5)==y)
    {
        System.out.println("Hello");
        x++;
        y++;
    }
}
```

Options

○ Infinite

○ Zero

● One ✔

○ Error

Correct Answer

Solution Description
The loop is executed only once when y=5. The condition is false when y=6.

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Conditionals and Loops

Deadline

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Number of hello 2

Send Feedback

The number of Hello printed on the screen for the following code will be:

```
public static void main (String[] args) {
    int x=5;
    int y=5;
    while(x==y)
    {
        System.out.println("Hello");
        x++;
        y++;
    }
}
```

Options

○ 1

● Infinite ✔

○ 5

○ 0

Correct Answer

Solution Description

x and y are equal every time . Hence infinite loop.

‹ PREVIOUS   › NEXT   ⟳ SUBMIT

Conditionals and Loops

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Sum of N Numbers

Same output ●   10.0/10

Fahrenheit to Celsius Table ●   40.0/40

Check Primality

Primality Check ●   10.0/10
☝ 1 Doubt(s) asked

Return Keyword

Find the output ●   10.0/10

Scope of Variables

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

What is the output ●   10.0/10

Assignment

Same output

Send Feedback

Which of the following codes gives same output:

1

```
int i=1;
while(i<5)
{
    System.out.print(2*i);
    i=i+1;
}
```

2

```
int i=2;
while(i<10)
{
    System.out.print(i);
    i=i+2;
}
```

3

```
int i=2;
while(i<10)
{
    System.out.print(i);
    i*=2;
}
```

4

```
int i=10;
while(i>0)
{
    if(i%2==0)
    {
        System.out.print(10-i);
```

Options

○ 2 4

○ 1 2 3 4

● 1 2 ✔

○ 1 2 4

Correct Answer

Solution Description

Output of the codes are: Code 1: 2468 Code 2: 2468 Code 3: 248 Code 4: 02468

PREVIOUS   NEXT   SUBMIT

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Assignment
100.0%
Score 200.00/200

Primality Check
Send Feedback

Can this code be used to check primality of a positive integer:

```
public static void main (String[] args) {
    Scanner s=new Scanner (System.in);
    int n=s.nextInt();
    boolean isprime=true;
    if(n%2==0)
        isprime=false;
    int i=3;
    while(isprime&&i<n)
    {
        isprime=!(n%i==0);
        i+=2;
    }
    if(isprime)
    {
        System.out.println("Prime");
    }
    else
    {
        System.out.println("Composite");
    }

}
```

Options

○ Yes

● No ✓

Correct Answer

Solution Description
The code fails for n=2. Otherwise the code runs fine for every other positive integer.

PREVIOUS   NEXT   SUBMIT

Conditionals and Loops

Deadline
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1 Doubt(s) asked

Return Keyword

Find the output •   10.0/10

Scope of Variables

Check the error •   10.0/10

Check the error •   10.0/10

Check the error •   10.0/10

Check the error •   10.0/10

What is the output •   10.0/10

Assignment

100.0%

Score 200.00/200

Total Salary •   40.0/40
2 Doubt(s) asked

Multiplication Table •   40.0/40

Sum of even & odd •   40.0/40
2 Doubt(s) asked

Factors •   40.0/40

Find power of a number •   40.0/40

Find the output

Send Feedback

Find the output for the following code:

```
int i=10;
    while((i=i-1)>0)
    {
        System.out.print(i);
        if(i%5==0)
            return;
    }
```

Options

○ 987654321

○ Error

● 98765 ✔

○ 9876

Correct Answer

Solution Description
The code executes for i=9,8,7,6,5 and prints 98765. At i=5 the if statement is executed and the code terminates.

PREVIOUS   NEXT   SUBMIT

Conditionals and Loops

Deadline

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Return Keyword

Find the output •   10.0/10

Scope of Variables

Check the error •   10.0/10

Check the error •   10.0/10

Check the error •   10.0/10

Check the error •   10.0/10

What is the output •   10.0/10

Assignment

100.0%

Score   200.00/200

Total Salary •   40.0/40
   2 Doubt(s) asked

Multiplication Table •   40.0/40

Sum of even & odd •   40.0/40
   2 Doubt(s) asked

Factors •   40.0/40

Find power of a number •   40.0/40
   2 Doubt(s) asked

Check the error

Send Feedback

Will following code generate error ?

```
public class Main {
    public static void main(String[] args) {
        int a = 10;
        if(a > 5) {
            int b = 10;
        }
        System.out.println(b);
    }
}
```

Options

●   Yes ✔

○   No

Correct Answer

PREVIOUS   NEXT   SUBMIT

Conditionals and Loops

Deadline

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Return Keyword

Find the output ●   10.0/10

Scope of Variables

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

What is the output ●   10.0/10

Check the error

Send Feedback

Will following code generate error ?

```java
public class Main {
    public static void main(String[] args) {
        int a = 10;
        if(a > 5) {
            a = 100;
        }
        System.out.println(a);
    }
}
```

Options

○ Yes

● No ✔

Correct Answer

Assignment

100.0%

Score 200.00/200

Total Salary ●
✋ 2 Doubt(s) asked   40.0/40

Multiplication Table ●   40.0/40

Sum of even & odd ●
✋ 2 Doubt(s) asked   40.0/40

Factors ●   40.0/40

Find power of a number ●
✋ 2 Doubt(s) asked   40.0/40

◁ PREVIOUS   ▷ NEXT   ↻ SUBMIT

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Return Keyword

Find the output ●   10.0/10

Scope of Variables

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

Check the error ●   10.0/10

What is the output ●   10.0/10

Assignment
100.0%

Score   200.00/200

Total Salary ●   40.0/40
✋ 2 Doubt(s) asked

Multiplication Table ●   40.0/40

Sum of even & odd ●   40.0/40
✋ 2 Doubt(s) asked

Factors ●   40.0/40

Find power of a number ●   40.0/40
✋ 2 Doubt(s) asked

Check the error
Send Feedback

Will following code generate error ?

```
public class Main {
    public static void main(String[] args) {
        int a = 10;
        if(a > 5) {
            int a = 100;
        }
        System.out.println(a);
    }
}
```

Options

●   Yes ✔

○   No

Correct Answer

PREVIOUS   NEXT   SUBMIT

Conditionals and Loops

Deadline

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Return Keyword

Find the output •   10.0/10

Scope of Variables

Check the error •   10.0/10

Check the error •   10.0/10

Check the error •   10.0/10

Check the error •   10.0/10

What is the output •   10.0/10

Assignment

                          100.0%

Score   200.00/200

Total Salary •   40.0/40
   2 Doubt(s) asked

Multiplication Table •   40.0/40

Sum of even & odd •   40.0/40
   2 Doubt(s) asked

Factors •   40.0/40

Find power of a number •   40.0/40
   2 Doubt(s) asked

Check the error

Send Feedback

Will following code generate error ?

```
public class Main {
    public static void main(String[] args) {
    for(int i = 0; i < 3; i++) {
        System.out.print(i + " ");
        }
    System.out.print(i + " ");
        }
}
```

Options

●   Yes ✔

○   No

Correct Answer

< PREVIOUS   > NEXT   SUBMIT

Conditionals and Loops
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Return Keyword

Find the output ●　　　　　10.0/10

Scope of Variables

Check the error ●　　　　　10.0/10

Check the error ●　　　　　10.0/10

Check the error ●　　　　　10.0/10

Check the error ●　　　　　10.0/10

What is the output ●　　　　　10.0/10

Assignment
　　　　　　　　　　　　　　　　　100.0%
Score 200.00/200

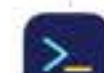Total Salary ●　　　　　　　　40.0/40
　✋ 2 Doubt(s) asked

Multiplication Table ●　　　　　40.0/40

Sum of even & odd ●　　　　　40.0/40
　✋ 2 Doubt(s) asked

Factors ●　　　　　　　　　　40.0/40

Find power of a number ●　　　40.0/40
　✋ 2 Doubt(s) asked

What is the output
Send Feedback

What is the output ?

```
public class Main {
    public static void main(String[] args) {
    int a = 10;
    while(a > 5) {
        int b = 1;
        System.out.print(b + " ");
        a--;
    }
    }
}
```

Options

○　10 9 8 7 6

●　1 1 1 1 1 ✔

○　Error

○　Infinite loop

Correct Answer

PREVIOUS　　NEXT　　SUBMIT