**Source: QA Fox**

1. **Java Program - What is the output for System.out.println(-6+4\*2); ?**

**public class Demo {**

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

**System.out.println(-6+4\*2);**

**}**

**}**

**---**

**Output:**

**2**

**---**

**Explanation: Priority of operators in the above code: \*,+,-**

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**2.What is the output for System.out.println((2+3)\*4) ?**

public class Program\_2 {  
  
  
 public static void main(String[] args) {  
  
 System.*out*.println((2+3)\*4);  
  
 }  
}

**Output:20**

**Explanation: Circular bracket have high priority over multiplication Operator.**

**3Q: What is the output for System.out.println(9+6-3\*4/2%5); ?**

//3Q:What is the output for System.out.println(9+6-3\*4/2%5); ?  
public class Program\_3 {  
 public static void main(String[] args) {  
 //Priority order as follows: \* / % + -  
 System.*out*.println(9+6-3\*4/2%5);  
   
   
   
 //OUTPUT:14  
 }  
}

**4. Java Program for intaking two numbers using Scanner and printing their sum**

**Notes:** [**https://lite.evernote.com/note/f0600f4a-bec6-435c-9294-81d2c0cb0833**](https://lite.evernote.com/note/f0600f4a-bec6-435c-9294-81d2c0cb0833)

**public** **class** Demo {

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

         Scanner scanner = **new** Scanner(System.***in***);

         System.***out***.println("Enter first number:");

**int** a = scanner.nextInt();

         System.***out***.println("Enter second number:");

**int** b = scanner.nextInt();

         System.***out***.println("The sum of two given numbers is: " +(a +b ));

         scanner.close();

       }

}

Output:

Enter first number:

9

Enter second number:

5

The sum of two given numbers is: 14

# 5. Java program to check whether the given input number is even or odd

# Notes: <https://lite.evernote.com/note/dac7dbc3-c834-475a-bbca-aa0340fcab22>

# public class Demo {

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

# 

# Scanner scanner = new Scanner(System.in);

# 

# System.out.println("Input your number:");

# int a = scanner.nextInt();

# 

# if(a %2==0) {

# 

# System.out.println("Given number " +a +" is an even number");

# 

# } else {

# 

# System.out.println("Given number " +a +" is an odd number");

# 

# }

# 

# scanner.close();

# }

# }

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** **Java program which prints the multiplication table of the given input number**

**Notes:** [**https://lite.evernote.com/note/dd984519-d84c-44fd-88b4-f7b9752390ef**](https://lite.evernote.com/note/dd984519-d84c-44fd-88b4-f7b9752390ef)

**public** **class** Demo {

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

         Scanner scanner = **new** Scanner(System.***in***);

         System.***out***.println("Input your number:");

**int** n = scanner.nextInt();

**for**(**int** i=1;i<=10;i++) {

                System.***out***.println(n +"x"+i+"="+(n\*i));

         }

         scanner.close();

       }

}

Output:

Input your number:

5

5x1=5

5x2=10

5x3=15

5x4=20

5x5=25

5x6=30

5x7=35

5x8=40

5x9=45

5x10=50

**7.** **Java program to check whether the given year is a Leap Year**

**Notes:** [**https://lite.evernote.com/note/ad33407d-e01b-4d63-bd2b-6a3e29977669**](https://lite.evernote.com/note/ad33407d-e01b-4d63-bd2b-6a3e29977669)

Leap Year is an year having 366 days, while the normal year has 365 days.

If the year is evenly divisible by 4 and not divisible by 100, then it is a Leap year.

If the year is evenly divisible by both 4 and 100, then we need to check if it is evenly divisible by 400, to confirm it as Leap year.

**public** **class** Demo {

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

         Scanner scanner = **new** Scanner(System.***in***);

         System.***out***.println("Input Year:");

**int** year = scanner.nextInt();

**boolean** isLeapYear = **false**;

**if**(year %4==0) {

**if**(year %100==0) {

**if**(year %400==0) {

                             isLeapYear = **true** ;

                       } **else** {

                             isLeapYear = **false** ;

                       }

                } **else** {

                       isLeapYear = **true** ;

                }

         } **else** {

                isLeapYear = **false** ;

         }

**if**(isLeapYear== **true**) {

         System.***out***.println("Given year " +year +" is a leap year");

      }**else** {

         System.***out***.println("Given year " +year +" is not a leap year");

      }

         scanner.close();

       }

}

Output:

Input Year:

2020

Given year 2020 is a leap year

8. **Java program - What is the output for System.out.println(7+(3\*5)\*(4/2)+(5%3)-1);**

**Notes:** [**https://lite.evernote.com/note/e8b91544-9332-4c6b-8967-e8c9230cc9a4**](https://lite.evernote.com/note/e8b91544-9332-4c6b-8967-e8c9230cc9a4)

**public** **class** Demo {

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

              System.***out***.println(7+(3\*5)\*(4/2)+(5%3)-1);

       }

}

Explanation: The above thing will be executed according to this Priority: (), \*, /, %, +, -

Output:

38

**9. Java program to check whether the given character is a Vowel**

Notes: <https://lite.evernote.com/note/d5b9b305-0615-4a5d-842c-42949c7b9e9e>

In English, Vowels are the below characters in the lowercase and uppercase:

* a, e, i, o and u
* A, E, I, O and U

**public** **class** Demo {

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

              Scanner scanner = **new** Scanner(System.***in***);

              System.***out***.println("Enter any character:");

**char** c = scanner.next().charAt(0);

**boolean** isVowel = **false**;

**switch**(c) {

**case** 'a' :

**case** 'e' :

**case** 'i' :

**case** 'o' :

**case** 'u' :

**case** 'A' :

**case** 'E' :

**case** 'I' :

**case** 'O' :

**case** 'U' : isVowel = **true**;

              }

**if**(isVowel ==**true**) {

                     System.***out***.println(c+" is a vowel");

              } **else** {

                     System.***out***.println(c+" is not a vowel");

              }

               scanner.close();

       }

}

Output:

Enter any character:

i

i is a vowel

**10. Java program to print the area of a circle**

**Notes:** [**https://lite.evernote.com/note/ed255e9d-10ef-4eb2-a2ce-732657ade986**](https://lite.evernote.com/note/ed255e9d-10ef-4eb2-a2ce-732657ade986)

We have to input the radius to the Program.

- Radius is the center of the circle to the border of the circle.

Area of the circle is Pi \* radius \* radius.

**public** **class** Demo {

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

              Scanner scanner = **new** Scanner(System.***in***);

              System.***out***.println("Enter the radius of the circle");

**double** radius = scanner.nextDouble();

              System.***out***.println("Area of circle is: "+(Math.***PI***\*radius\*radius));

              scanner.close();

       }

}

Output:

Enter the radius of the circle

5

Area of circle is: 78.53981633974483

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**11.** **Java program which intakes two numbers and finds the quotient and reminder**

**Notes:** [**https://lite.evernote.com/note/7c3e096c-ff67-42ce-b9e2-17975dbd7e35**](https://lite.evernote.com/note/7c3e096c-ff67-42ce-b9e2-17975dbd7e35)

**public** **class** Demo {

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

               Scanner scanner = **new** Scanner(System.***in***);

               System.***out***.println("Enter the first number:");

**int** num = scanner.nextInt();

               System.***out***.println("Enter the divisor:");

**int** divisor = scanner.nextInt();

               System.***out***.println("Quotient is: "+(num /divisor));

               System.***out***.println("Remainder is: "+(num %divisor));

               scanner.close();

       }

}

Output:

Enter the first number:

10

Enter the divisor:

2

Quotient is: 5

Remainder is: 0