

//Q 1 Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 7.

```
package Lab2;
```

```
public class Question01 {
```

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

```
        int i,sum=0;
```

```
        System.out.println("The number divisible by 7 between 100 and 200 is ");
```

```
        for(i=100;i<200;i++)
```

```
        {
```

```
            if(i%7==0)
```

```
            {
```

```
                sum = sum + i;
```

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

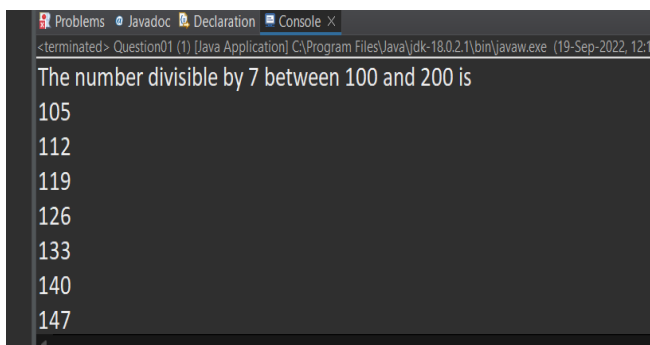
```
            }
```

```
        }
```

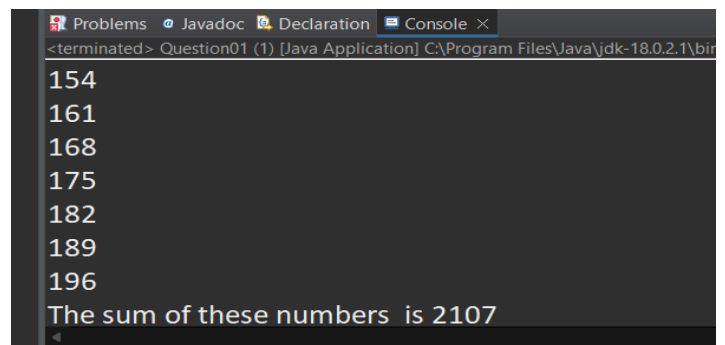
```
        System.out.println("The sum of these numbers is " +sum);
```

```
    }
```

```
}
```



```
<terminated> Question01 (1) [Java Application] C:\Program Files\Java\jdk-18.0.2\bin\javaw.exe (19-Sep-2022, 12:1
The number divisible by 7 between 100 and 200 is
105
112
119
126
133
140
147
```



```
<terminated> Question01 (1) [Java Application] C:\Program Files\Java\jdk-18.0.2\bin
154
161
168
175
182
189
196
The sum of these numbers is 2107
```

// Q2 Write a program in java that ask three numbers from

//user and print the greatest among three

```
package Lab2;
```

```
import java.util.Scanner;
```

```
public class Question02 {
```

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

```

        Scanner s = new Scanner(System.in);

float a,b,c;

        System.out.println("Enter the three numbers: ");

        a=s.nextFloat();

        b=s.nextFloat();

        c=s.nextFloat();

        float d = (a>b)? ((a>c)? a : c) : ((b>c)? b : c);

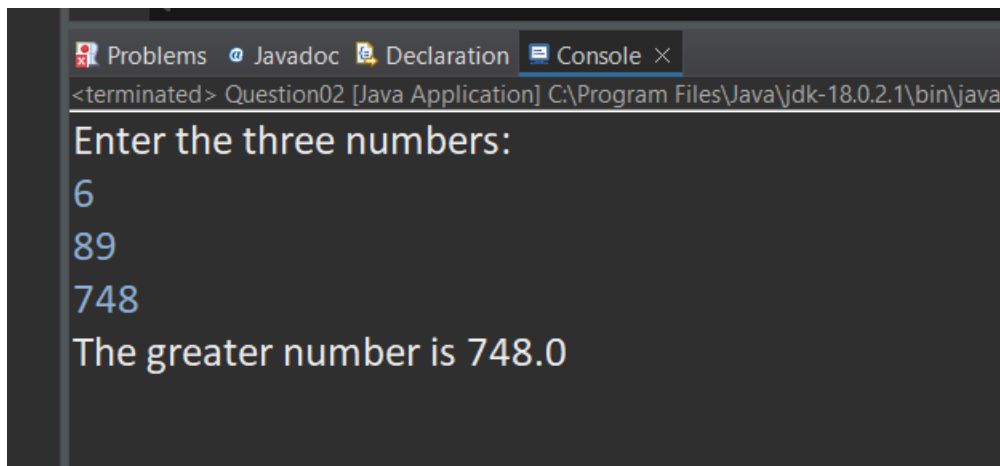
System.out.println("The greater number is " +d);

        s.close();

    }

}

```



//Q3. WAP to find ASCII value of a character .

```

package Lab2;

import java.util.Scanner;

public class Question03 {

    public static void main(String[] args) {

        Scanner s = new Scanner(System.in);

        System.out.println("Enter the character ");

        char ch =s.next().charAt(0);

        short a = (short)ch;

        System.out.println("The ASCII value of chracter "+ch+ " is "+a);

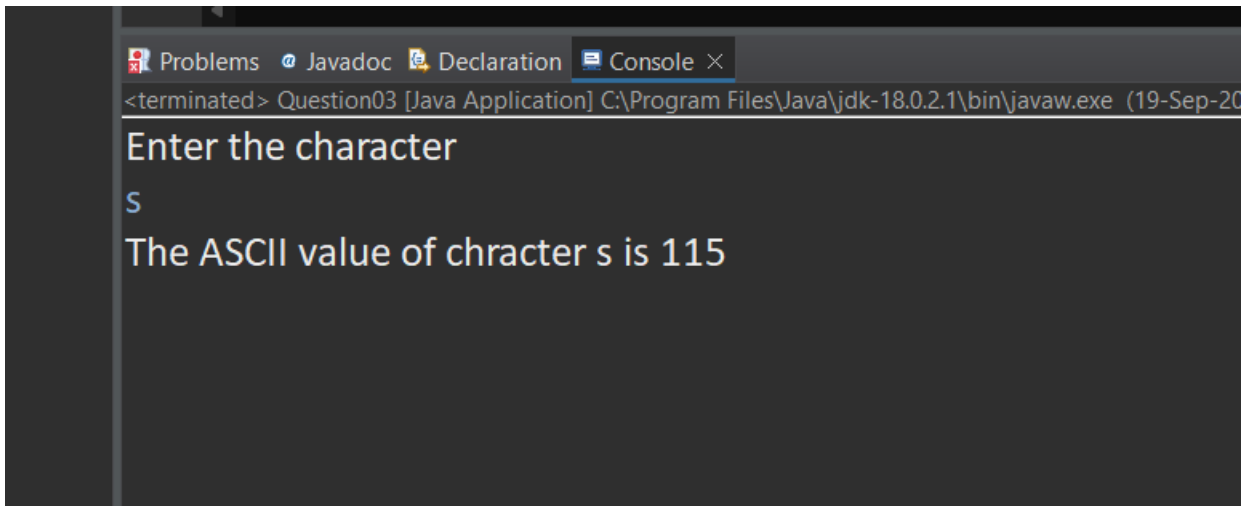
        s.close();

    }

}

```

}



```
<terminated> Question03 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (19-Sep-20
Enter the character
s
The ASCII value of chracter s is 115
```

//Q4 Java Program to Check Whether an Alphabet is Vowel or Consonant

```
package Lab2;
```

```
import java.util.Scanner;
```

```
public class Question04 {
```

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

```
        Scanner s = new Scanner(System.in);
```

```
        System.out.println("Enter the character");
```

```
        char ch = s.next().charAt(0);
```

```
        if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' || ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
```

```
        {
```

```
            System.out.println("Alphabet is vowel");
```

```
        }
```

```
        else if(ch>='a'&&ch<='z' || ch>='A' &&ch<='Z')
```

```
            System.out.println("Alphabet is consonant");
```

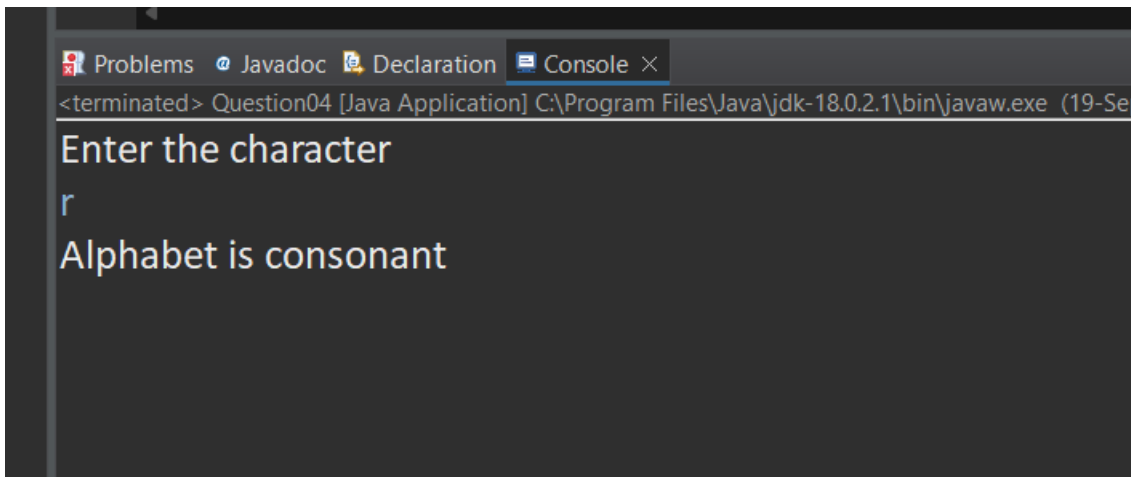
```
        else
```

```
            System.out.println("Please enter the valid alphabet");
```

```
        s.close();
```

```
    }
```

```
}
```



```
Problems Javadoc Declaration Console X
<terminated> Question04 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (19-Sep-2023 10:00:00 AM)
Enter the character
r
Alphabet is consonant
```

//Q 5 Check if a Number is Positive or Negative using if else

```
package Lab2;

import java.util.Scanner;

public class Question05 {

    public static void main(String[] args) {

        Scanner s= new Scanner(System.in);

        System.out.println("Enter the number");

        int a=s.nextInt();

        if(a>0)

            System.out.println("The number is positive.");

        else if(a<0)

            System.out.println("The given number is negative.");

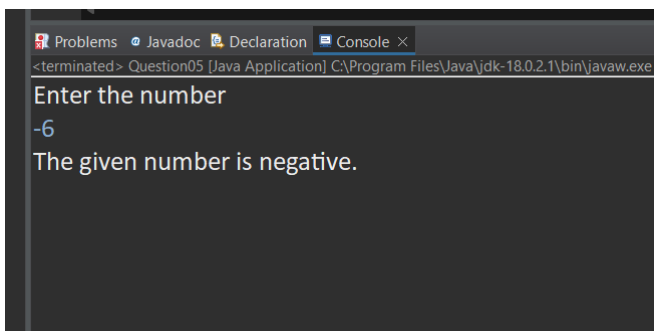
        else

            System.out.println("The given number is neither positive nor negative.");

        s.close();

    }

}
```



```
Problems Javadoc Declaration Console X
<terminated> Question05 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe
Enter the number
-6
The given number is negative.
```

//Q 6 WAP for swapping two numbers without using third variable

```
package Lab2;

import java.util.Scanner;

public class Question06 {

    public static void main(String[] args) {

        Scanner s=new Scanner(System.in);

        System.out.println("Enter the value of a");

        int a= s.nextInt();

        System.out.println("Enter the value of b");

        int b= s.nextInt();

        System.out.println("The value of a = "+a+" and b = "+b+ " before swapping");

        a=a+b;

        b=a-b;

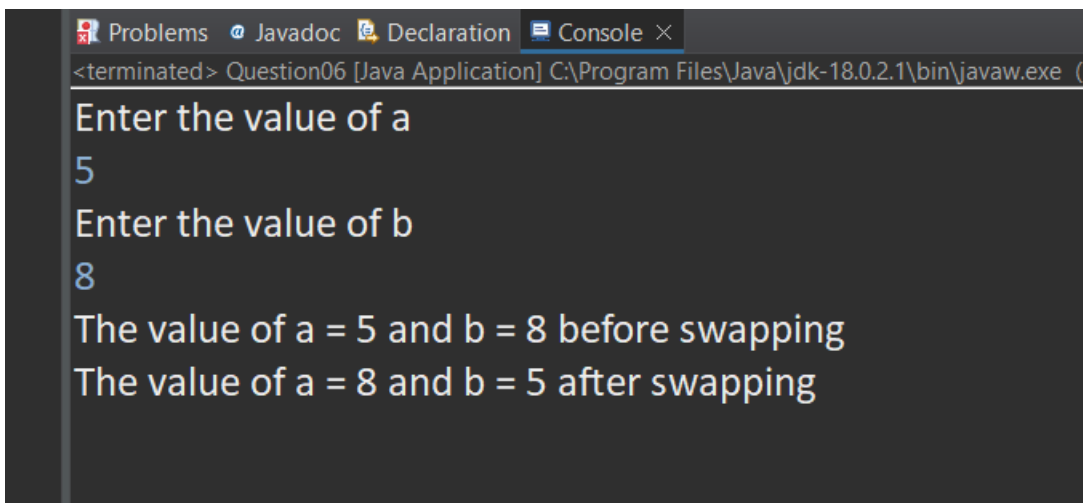
        a=a-b;

        System.out.println("The value of a = "+a+" and b = "+b+ " after swapping");

        s.close();

    }

}
```

A screenshot of a Java IDE's console window. The window has tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The 'Console' tab is active, showing the output of the program. The text in the console is: 'Enter the value of a', '5', 'Enter the value of b', '8', 'The value of a = 5 and b = 8 before swapping', and 'The value of a = 8 and b = 5 after swapping'. The window title bar shows the file path 'C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe'.

//Q7 Write a program that would print the information (name,

// year of joining, salary, address) of three employees by creating a class named

// 'Employee'. The output should be as follows:

```
package Lab2;
```

```
public class Employee {
```

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

```
        String name1="Ashish";
```

```
        String name2="sam";
```

```
        String name3="john";
```

```
        int YOJ1 =1994;
```

```
        int YOJ2 = 2000;
```

```
        int YOJ3= 1999;
```

```
        String address1="64C- WallsStreet";
```

```
        String address2="68D- WallsStreet";
```

```
        String address3="26B- WallsStreet";
```

```
        System.out.println("Name\tYear of joining\tAddress");
```

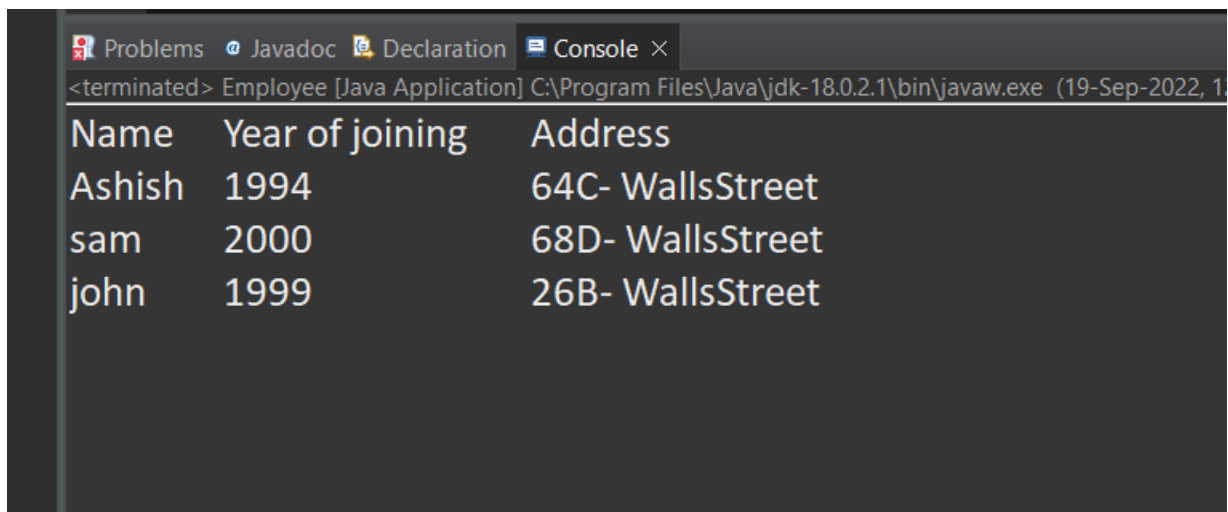
```
System.out.println(name1+"\t"+YOJ1+"\t\t"+address1);
```

```
System.out.println(name2+"\t"+YOJ2+"\t\t"+address2);
```

```
System.out.println(name3+"\t"+YOJ3+"\t\t"+address3);
```

```
    }
```

```
}
```



```
<terminated> Employee [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (19-Sep-2022, 1
```

Name	Year of joining	Address
Ashish	1994	64C- WallsStreet
sam	2000	68D- WallsStreet
john	1999	26B- WallsStreet

```
//Q8 WAP to input basic salary of an employee and calculate its
```

```
//Gross salary according to following:
```

```
package Lab2;
```

```
import java.util.Scanner;
```

```
public class Question08 {
```

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

```
        Scanner s = new Scanner(System.in);
```

```
        int salary;
```

```
        float Gross_salary, HRA, DA;
```

```
        System.out.println("Enter the basic salary");
```

```
        salary = s.nextInt();
```

```
        if (salary <= 10000 && salary > 0)
```

```
        {
```

```
            HRA = 0.2f * salary;
```

```
            DA = 0.8f * salary;
```

```
            Gross_salary = salary + HRA + DA;
```

```
            System.out.println("Your basic salary is: "+salary+"\nYour HRA is: "+HRA+"\nYour DA is:"+DA+
"\nand your gross salary is:" + Gross_salary);
```

```
        }
```

```
        else if (salary>10000 && salary <=20000)
```

```
        {
```

```
            HRA = 0.25f * salary;
```

```
            DA = 0.9f * salary;
```

```
            Gross_salary = salary + HRA + DA;
```

```
            System.out.println("Your basic salary is: "+salary+"\nYour HRA is:"+ HRA+"\nYour DA is:"+DA+
"\nand your gross salary is:" + Gross_salary);
```

```
        }
```

```
        else
```

```
        {
```

```
            HRA = 0.3f * salary;
```

```
            DA = 0.95f * salary;
```

```
            Gross_salary = salary + HRA + DA;
```

```
            System.out.println("Your basic salary is: "+salary+"\nYour HRA is: "+HRA+"\nYour DA is:"+DA+
"\nand your gross salary is:" + Gross_salary);
```

```
            s.close();
```

```

    }
}
}

```

```

<terminated> Question08 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (19-Sep-202
Enter the basic salary
35000
Your basic salary is: 35000
Your HRA is: 10500.0
Your DA is:33250.0
and your gross salary is:78750.0

```

//Q 9 Q wap to print even numbers between 10 to 20

```
package Lab2;
```

```

public class Question09 {
    public static void main(String[] args) {
        System.out.println("The even numbers between 10 to 20 are: ");
        for(int i=10;i<=20;i++)
        {
            if(i%2==0)
                System.out.println(i);
        }
    }
}

```

```

<terminated> Question09 [Java Application] C:\Program Files\Java\jdk-18.0.2
The even numbers between 10 to 20 are:
10
12
14
16
18
20

```



//Q 10 wap to check if a number is prime or not

```
package Lab2;
```

```
import java.util.Scanner;
```

```
public class Question10 {
```

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

```
        Scanner s= new Scanner(System.in);
```

```
        boolean flag = false;
```

```
        System.out.println("Enter the number ");
```

```
        int n= s.nextInt();
```

```
        for (int i= 2;i<n;i++)
```

```
        {
```

```
            if(n%i==0)
```

```
            {
```

```
                flag=true;
```

```
                break;
```

```
            }
```

```
        }
```

```
        if(flag!=true)
```

```
            System.out.println("The number is prime");
```

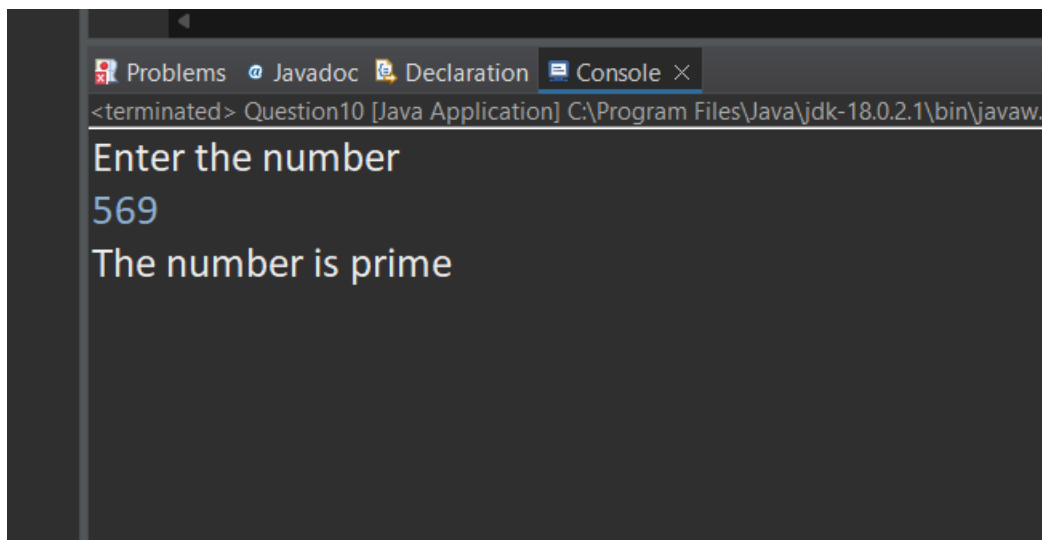
```
        else
```

```
            System.out.println("The number is not prime");
```

```
        s.close();
```

```
    }
```

```
}
```



```
Problems Javadoc Declaration Console ×
<terminated> Question10 [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.
Enter the number
569
The number is prime
```

//Q 11 wap to reverse a given digit 123 321

```
package Lab2;

import java.util.Scanner;

public class Question11 {

    public static void main(String[] args) {

        Scanner s=new Scanner(System.in);

        System.out.println("Enter the number");

        int n=s.nextInt();

        int rem,rev=0;

        while(n!=0)

        {

            rem= n%10;

            rev= rev*10+rem;

            n=n/10;

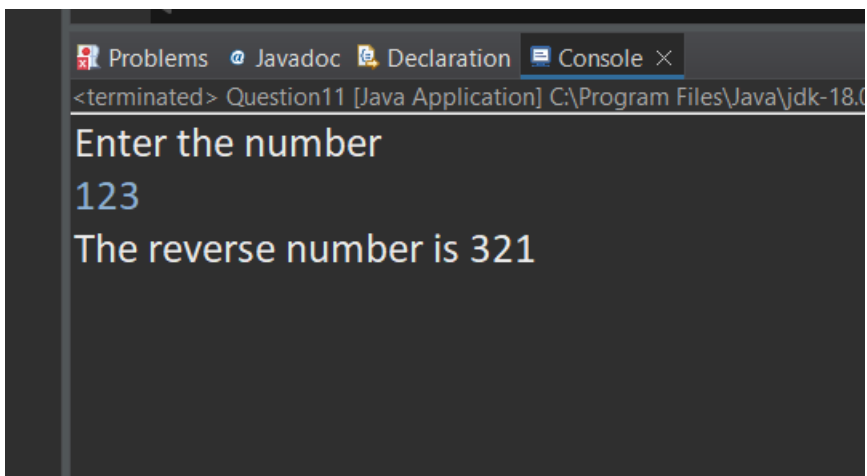
        }

        System.out.println("The reverse number is "+rev);

        s.close();

    }

}
```



The screenshot shows a Java IDE window with a console tab. The console output is as follows:

```
<terminated> Question11 [Java Application] C:\Program Files\Java\jdk-18.0
Enter the number
123
The reverse number is 321
```