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1. Write a program that prompts the user to enter a two part of string

ID number and year of birth

As the following format:  **YYYY\_NNNNN**

* **Then** split the ID number and the year of birth ,after that calculate the age.

and print the result as following

Example for the output:

Enter a number format YYYY\_NNNNN > 1410\_63291

Your birth year is: 1410

Your ID is: 63291

Your age is: 22

1. Suppose x = 6 , found=true.

if (x == 6 && found)  
System.out.println("Problem 4 is true.\n");  
else  
{  
System.out.println("Problem 4 is false.\n");  
System.out.println("Both conditions must be true.\n");  
}  
System.out.println("End of Problem 4.\n");

1. What is the value of a after the following Java code executes? **(Assume that all variables are declared properly.)**

a = console.nextInt();

if (a > 0)

switch (a)

Input are

A=6 🡪

A=-3 🡪

A=3🡪

A=1🡪

{

case 1:

a = a + 3;

case 3:

a++;

break;

case 6:

a = a + 6;

case 8:

a = a \* 8;

break;

default:

a– –;

}

else

a = a + 2;

1. Trace the following program segments , show the output and any updates on ***the variable’s values:***
2. for(int i=1; i<= 3 ;i++){

        for(int j=0; j < i; j++){

                        System.out.print("\*");}

         System.out.println("");}

for(int i=3; i>0 ;i--){

      for(int j=0; j < i; j++){

                    System.out.print("\*");}

                     System.out.println("");}

char c = 'A';   
while ( c < 'I')  
{  
 System.out.print(c);  
 ++c;  
 if ( c >= 'E' || c <= 'F') break;   
 System.out.print(", "); }

char c = 'A';

while ( c < 'I')

{

System.out.print(c);

++c;

if ( c >= 'E' && c <= 'F') break;

System.out.print(", "); }

}

char c = 'A';

while ( c < 'I')

{

System.out.print(c);

++c;

if ( c >= 'E' || c <= 'F') continue;

System.out.print(", "); }

char c = 'A';

while ( c < 'I')

{

System.out.print(c);

++c;

if ( c >= 'E' && c <= 'F') continue;

System.out.print(", "); }

}

1. **Write method headers for the following:**
2. A method that receives three strings and returns nothing.
3. A method that receives an integer and a character and returns a string.
4. A method that returns a Boolean and receives nothing.
5. **Trace the following program and specify its output**

public class Trace

{

public static void main( String[] args )

{

foo3();

System.out.println( "main1" );

foo2();

System.out.println( "main2" );

foo1();

System.out.println( "main3" );

foo2();

}

public static void foo1()

{

foo2();

System.out.println( "A" );

}

public static void foo2()

{

System.out.println( "B" );

foo3();

System.out.println( "C" );

}

public static void foo3()

{

System.out.println( "D" );

}

}

1. Write a program that reads the first and last name of student and prints the initials in capital letters.

Example:

Enter first and last name of student: Nora Ali

The initials are = N A