

Beginner Java(JD521)

Group Activity 6

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MARCH 2

COMPANY NAME

Authored by: Your Name



Logo
Name

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Introduction

Program Content

Source Code:

class NineInts:Question 1

```
package group.act.pkg5.project.question1;
import javax.swing.JOptionPane;
/**
 *
 * @author Albert Michael Ludick(5119)
 */
public class NineInts {
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        try{
            int[] NineIntsArray = new int[9]; //9 numbers array

            NineIntsArray[0]=1;
            NineIntsArray[1]=2;
            NineIntsArray[2]=3;
            NineIntsArray[3]=4; //manual entry of array data
            NineIntsArray[4]=5;
            NineIntsArray[5]=6;
            NineIntsArray[6]=7;
            NineIntsArray[7]=8;
            NineIntsArray[8]=9;
        }
    }
}
```

```

        System.out.println("Displayiong the int array from first to last");

        for(int i = 0;i <NineIntsArray.length;i++){//displays first to last
            System.out.println(NineIntsArray[i]);
        }
        System.out.println();
        System.out.println();//to give a great gap between the
        System.out.println();//first to last and last to first displays

        System.out.println("Displayiong the int array from last to first");

        for(int i = 8;i > -1;i--){//displays last to first
            System.out.println(NineIntsArray[i]);
        }
    }
    catch(ArrayIndexOutOfBoundsException ex){//error handeling for
        //the array if i made an mistake
        JOptionPane.showMessageDialog(null,ex,"Error Message"
            ,JOptionPane.ERROR_MESSAGE);
        throw ex;
    }
}

```

class Quiz:Question 2

```
package group.act5.project;
import java.awt.HeadlessException;
import javax.swing.JOptionPane;
/**
 *
 * @author Albert Michael Ludick(5119)
 */
public class Quiz {
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        try{
            String[] Questions = new String[10]; //contains the quiz questions
            char[] Answers = new char[10]; //contains the quiz answers

            Answers[0]='A';
            Answers[1]='C';
            Answers[2]='B';
            Answers[3]='C'; //manual entry of array data
            Answers[4]='C';
            Answers[5]='A';
            Answers[6]='B';
            Answers[7]='B';
            Answers[8]='A';
            Answers[9]='A';
        }
    }
}
```

```

Questions[0]="What is Mikes Favorite Game Series"
    +" "+"A: Assassins Creed ::"
    +" "+"B: Call of duty ::"
    +" "+"C: Mortal Kombat ::";
Questions[1]="What is my Favorite Game Dev Company"+" "
    +"A: EA ::"
    +" "+"B: Activition ::"+" " //manual entry of array data
    +"C: Respawn Entertainment ::";
Questions[2]="What is Mikes Favorite Game Genre"+" "
    +"A: RPG ::"+" "
    +"B: FPS ::"+" "
    +"C: Raceing ::";
Questions[3]="What is Mikes Favorite FPS Game"+" "
    +" A: Apex Legends ::"
    +" "+" B: Borderlands 2 ::"
    +" " "+" C: Titanfall 2 ::";
Questions[4]="What is Mikes Favorite Battleroyal Game"+" "
    +" A: Fortnight ::"+" "
    +" B: the Cycle ::"+" "
    +" C: Apex Legends ::";
Questions[5]="What is Mikes Favorite Character in Apex"+" "
    +" A: wraith ::"+" "
    +" B: Bangalore ::"+" " //manual entry of array data
    +" C: Revenant ::";

```

```

    +" C: Revenant ::";
Questions[6]="What is Mikes Favorite Gun types in FPS Games"+" "
    +" A: LMGs ::"+" "
    +" B: Assault Rifles ::"+" "
    +" C: Shotguns ::";
Questions[7]="What is Mikes Favorite Titan in Titanfall 2"+" "
    +" A: Scorch ::"+" "
    +" B: Ronin ::"+" "
    +" C: NorthStar ::";
Questions[8]="What is Mikes Favorite Game Machinic in recent games"+" "
    +" A: Parkcore ::"+" "
    +" B: Crafting ::"+" "
    +" C: QTE ::";
Questions[9]="What is Mikes lest Favorite Game of all time"+" "
    +" A: EVE Online ::"+" "
    +" B: Splinter cell :Blacklist ::"+" "
    +" C: Fortnight ::"; //manual entry of array data

```

```

    int j = 0; //for right answer counting
    int k = 0; //for wrong answer counting
    char userAns; //for UserAnswer
    for (int i = 0; i < 10; i++) {
        do {
            userAns = toUpperCase(JOptionPane.showInputDialog
                (Questions[i]).charAt(0)); //ask user for answer to question
            if (ForeverUntilIsRight(userAns) == false) {
                JOptionPane.showMessageDialog(null, "You have entered an "
                    + "invalid Letter as your answer plz try again");
                //displays
                //message if user inputed wrong character as answer
            }

```

```

        } while (ForeverUntilIsRight(userAns) == false); //checks if user entered
        // A or B or C and nothing else
        if (userAns == Answers[i]) {
            j++; //increments the right answers user made
            JOptionPane.showMessageDialog(null, "You have inputed the right"
                + " " + "answer congratz on that" + " " + "your score is :"+j
                + " " + "out of ten"); //displays to the user that his answer
            //was correct
        } else {
            int beginIndex = Questions[i].indexOf(Answers[i] + ":");
            int endIndex = Questions[i].indexOf(":", beginIndex);
            JOptionPane.showMessageDialog(null, "You have inputed the wrong"
                + " " + "answer the right one is :"+ " "
                + Questions[i].substring(beginIndex, endIndex) + " "
                + "your score is :"+j
                + "/10"); //Tells the User the right answer
            k++; //increments the wrong answers user made
        }
    }

```

```

        JOptionPane.showMessageDialog(null, "you have a total of Right "
            + " " + "answers :"+j+"/10"+ " " //this counts the right and wrong
            //answers
            + " " + "you have a total of Wrong " + " :"+k);
    }
    /*
    *this catch block catches if there is no input device
    *and if the array index goes out of bounds
    *or the string index for the substring method implemented
    */
    catch (ArrayIndexOutOfBoundsException | HeadlessException
        | StringIndexOutOfBoundsException ex) {
        JOptionPane.showMessageDialog(null, ex, "Error Message"
            , JOptionPane.ERROR_MESSAGE);
        throw ex;
    }
}

```



```

}
/**
 * this method return the passed in char as a Capital Version of itself
 * @param ch of char type
 * @return char with caps version returned
 */
public static char toUpperCase(char ch){
    String newString = String.valueOf(ch);
    String toUpperCase = newString.toUpperCase();
    ch = toUpperCase.charAt(0);
    return ch;
}

```

```

/**
 * this method is used to verify if the user has input either A or B or C
 * else it will return a false boolean value
 * @param ch char is passed in
 * @return boolean isright to say to while that it must continue or stop
 */
public static boolean ForEverUntilIsRight(char ch){
    boolean isright;
    if(ch == 'A' || ch == 'B' || ch == 'C'){
        isright = true;
        return isright;
    }else{
        isright = false;
        return isright;
    }
}
}

```



Bibliography & References:

Websites:

GeeksforGeek : <https://www.geeksforgeeks.org/>

And Javapoint : <https://www.javatpoint.com/>

Wiki How to do anything : <https://www.wikihow.com/Calculate-Weighted-Average>

Books:

Java_ A Beginner's Guide, Eighth Edition

Appendix

No Extra files or media.

Except for the project itself