PROJECT 1:TYPING SPEED CALCULATOR



Group Name: Java project

<u>ACKNOWLEDGEMENT</u>

While I was making this project, a lot of information that I found helped me in chapter and I am glad that I was able to complete this project and was able to understand many things.

It gave me an immense pleasure while doing this project because it was not just a project but, a source to learn not just about chapter but also I inculcated many qualities like responsibility, punctuality, confidence and what not.

The journey of making this project was so nice and in all this my teachers

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who supported me all the time, cleared my doubts and the parents support also played a big role and my friends too helped me. I thank to all of them and wish that they keep supporting me like this.

Doing work on time is something everyone needs to learn and through this project I have improved my timing and also it made my thinking skills better.

A project is a bridge between theoretical and practical learning and with this thinking I worked on the project and made it successful due to timely support and efforts of all who helped me.

Once again thank you Sir/Ma'am to give me this project and to make me learn so many things .I have no more valuable words to express my thanks, but my heart is still full of favor received from every person

ABOUT THE COMPANY:

Varcons Technologies Pvt Ltd is a digital service provider that aims to provide software, designing and marketing solutions to individuals and businesses. At VCT, we believe that service and quality is the key to success.

We provide all kinds of technological and designing solutions from Billing Software to Web Designs or any custom demand that you may have. Experience the service like none other!

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Consultancy - We are here to provide you with expert advice on your design and development requirement.

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A BRIEF OVERVIEW ON THE PROJECT:

This Java project is a general-purpose, concurrent, class-based, object-oriented computer programming language that is specifically designed to have as few implementation dependencies as possible and it helps to learn how to define and call the function in code.

It is intended to let application developers "write once, run anywhere" (WORA), meaning that code that runs on one platform does not need to be recompiled to run on another and from doing this project we get know about class must allow the objects to cooperate during the execution

2.ADVANTAGES AND CHALLENGES WHILE COMPLETING THE PROJECT.

This project has advantage of giving the user a understanding of his /her speed in typing the words and characters, also mentioning the correct accuracy of typed words. THE TYPING SPEED CACULATOR done has levels to it such as easy, medium, hard indicating the user speeds in various conditions given the randomness in words and sentences given helps the user to achieve more accuracy through his /her practice in the typing speed. Finally the WPM, CPM and accuracy is output for various levels user completes.

On the other hand the code of various levels that was to be done was challenge along with the time calculated for each input and the usual problems like use of inbuilt functions and minor problems in methods were faced often but overcome in final result.

SOFTWARE AND HARDWARE REQUIRMENTS FOR JAVA PROJECT:

Hardware Requirement for Java:

Minimum hardware requirement to download Java on your Windows operating system as follows:

- Minimum Windows 95 software
- · IBM-compatible 486 system
- Hard Drive and Minimum of 8 MB memory
- · A CD-ROM drive
- Mouse, keyboard and sound card

Software requirement for Java:

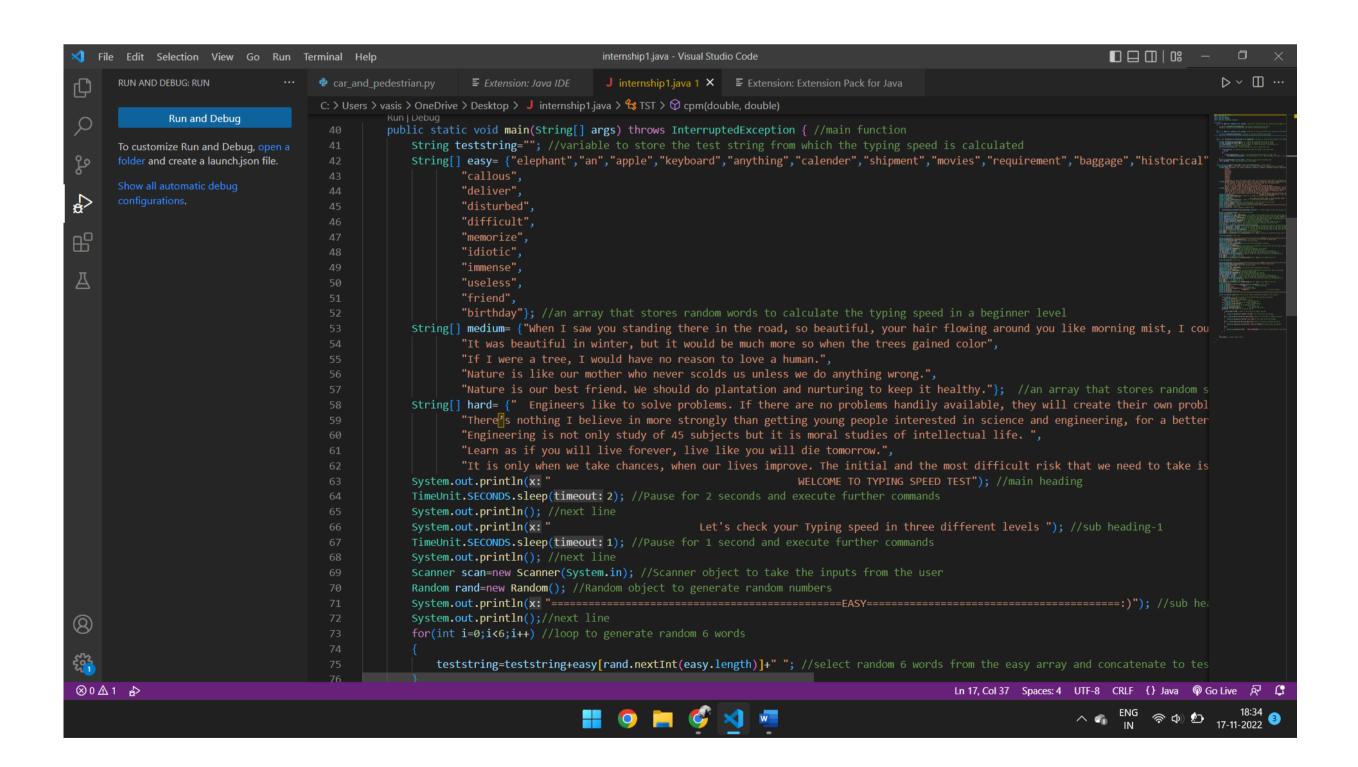
Nowadays, Java is supported by almost every operating systems. Whether it is a Windows, Macintosh and Unix all supports the Java application development. So you can download any of the operating system on your personal computer. Here are the minimum requirement.

The software require for project includes package necessary to successfully compile and build the program.

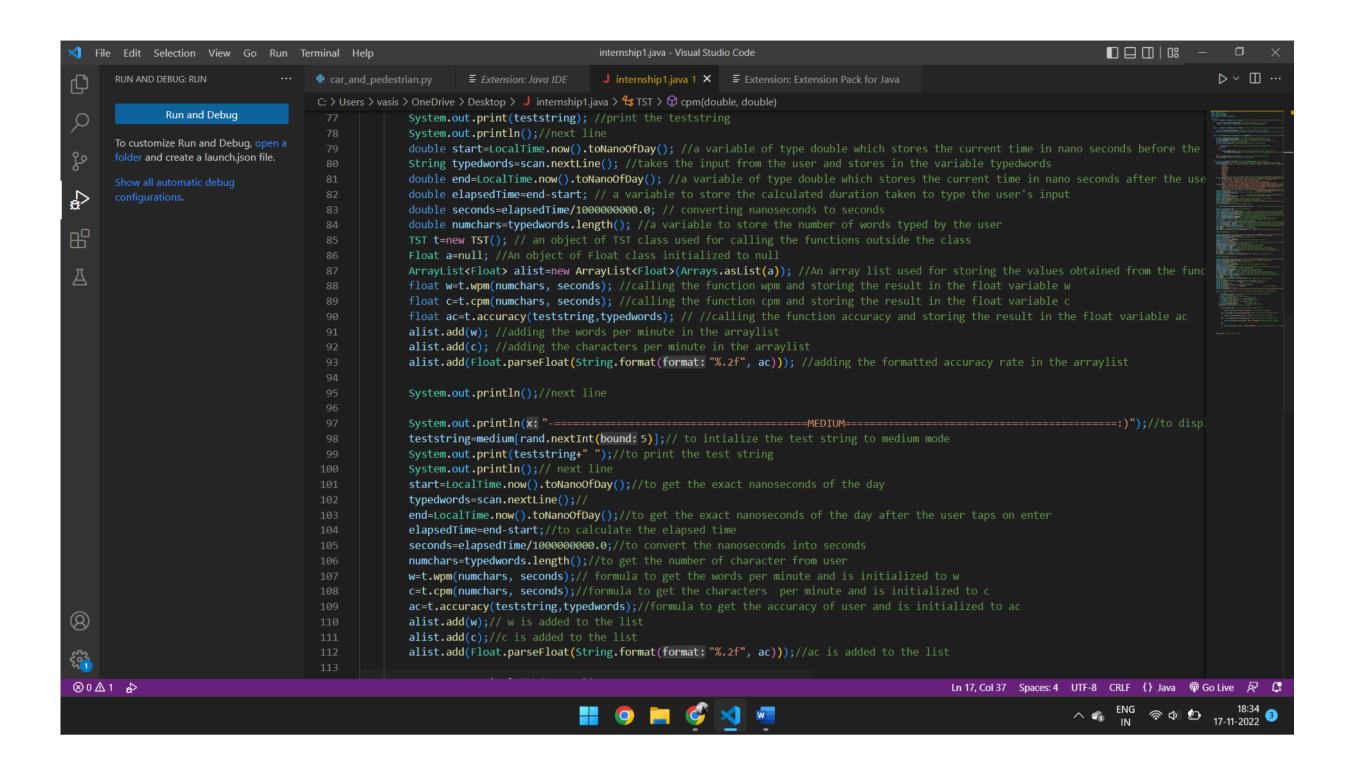
- Operating System
- Java SDK or JRE 1.6 or higher
- Java Servlet Container (Free Servlet Container available)
- Supported Database and library that supports the database connection with Java.

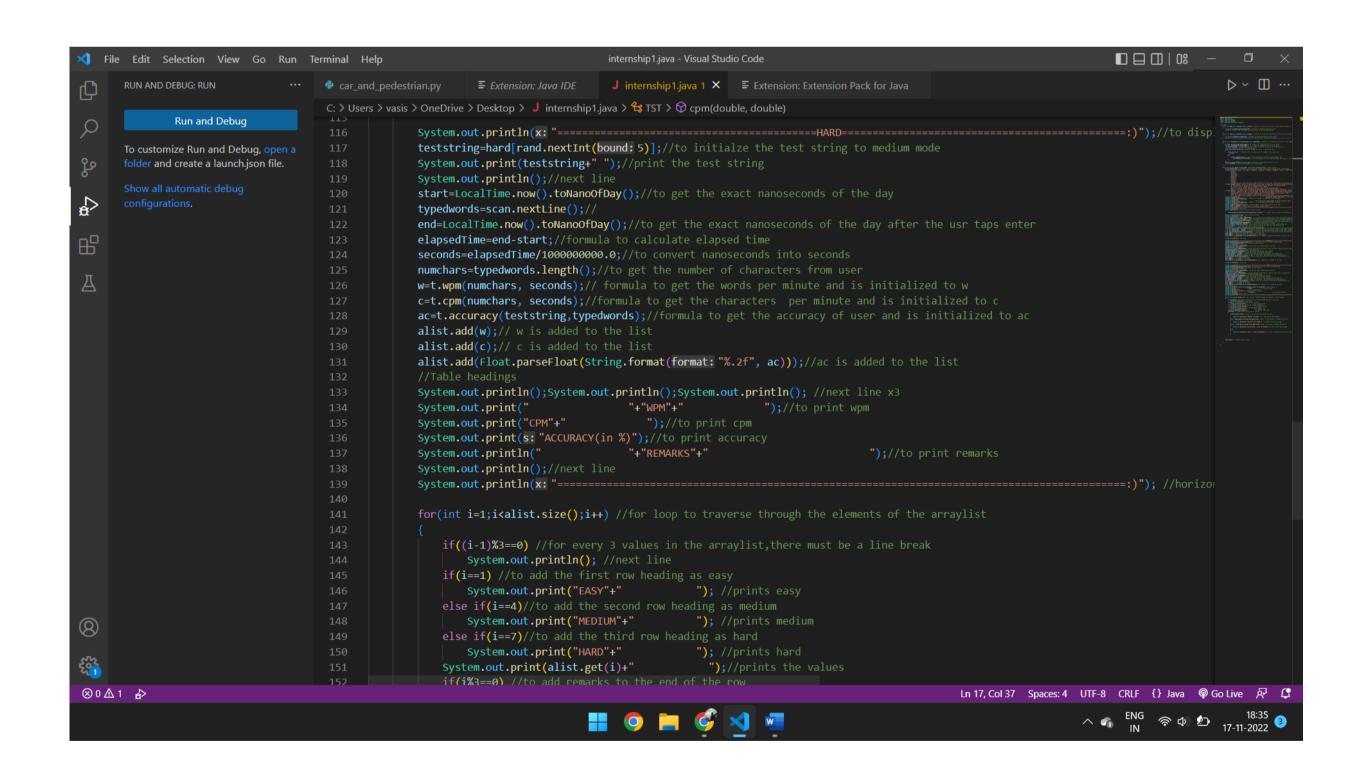
IMPLEMENTATION OF THE PROJECT with Screenshots:

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               Run and Debug
Q
                                              import java.time.LocalTime;
       To customize Run and Debug, open a
                                               import java.util.Random;
       folder and create a launch.json file.
                                               import java.util.concurrent.TimeUnit;
                                               class TST {
                                                   public int wpm(double numchars, double seconds) //Function to calculate words per minute with the number of characters and time taken
                                                       int w=(int)(((numchars/5)/seconds)*60); //Formula to calculate words per minute
                                                       return w: //returns the calculated words per minute to the calling function
                                                   public int cpm(double numchars, double seconds) //Function to calculate characters per minute with the number of characters and time t
                                                       int c=(int)((numchars/seconds)*60); //Formula to calculate characters per minute
                                                       return c; //returns the calculated characters per minute to the calling function
                                                   public float accuracy(String teststring, String typedwords) //Function to calculate the accuracy of the typed words with the given str
                                                       String[] ts=teststring.split(regex: " "); //split the teststring into array of words
                                                       String[] tw=typedwords.split(regex: " "); //split the typedwords into array of words
                                                        int correctwords=0; //variable to count the number of correct words and is initialized to 0
                                                        for(int i=0;i<ts.length;i++) //traverse through the words in teststring array</pre>
                                                            if(tw.length<=i) //To maintain the loop count upto the length of the typed words
                                                               break;
                                                                if(ts[i].equals(tw[i])) //check if the typed word matches the given string's word
                                                                    correctwords=correctwords+1; //if the condition is true, then increement the number of correct words by 1
(8)
                                                       ac=(float)correctwords/(float)ts.length; //Formula to calculate the accuracy rate
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TYPING SPEED CALCULATOR

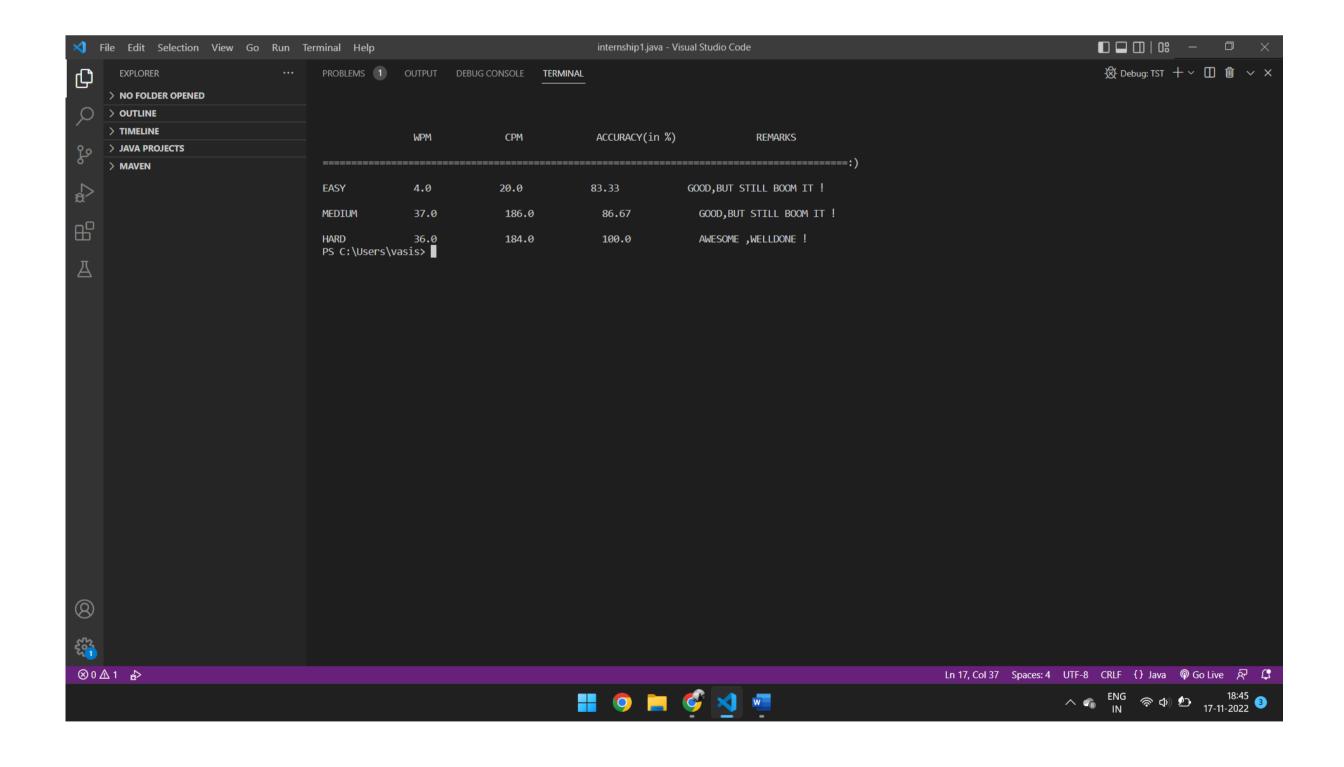




TYPING SPEED CALCULATOR

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                                     Run and Debug
Q
                                                   for(int i=1;i<alist.size();i++) //for loop to traverse through the elements of the arraylist</pre>
       To customize Run and Debug, open a
      folder and create a launch.json file.
                                                       if((i-1)%3==0) //for every 3 values in the arraylist, there must be a line break
                                                          System.out.println(); //next line
                                                           System.out.print("EASY"+"
                                                       else if(i==4)//to add the second row heading as medium
                                                           System.out.print("MEDIUM"+"
                                                           System.out.print("HARD"+"
                                                       System.out.print(alist.get(i)+"
                                                       if(i%3==0) //to add remarks to the end of the row
                                                           if(alist.get(i)>=90)// checks if the accuracy is greater than 90
                                                              System.out.println(x: "AWESOME ,WELLDONE !");// then prints this message
                                                           else if(alist.get(i)>=70 && alist.get(i)<90)//checks if the accuracy is between 70 and 90
                                                              System.out.println(x: "GOOD,BUT STILL BOOM IT !");//then prints this message
                                                           else if (alist.get(i)>=50 && alist.get(i)<70)//checks if accuracy is between 50 and 70
                                                              System.out.println(x: "SATISFACTORY, COULD BE IMPROVED!");//then prints this message
                                                              System.out.println(x: "POOR.... NEEDS IMPROVEMENT!");//if the its below 50,prints this message
(8)
                                                   scan.close(); //scanner object closes
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OUTPUT:



CONCLUSION:

The successful implementation of the TYPING SPEED CALCULATOR is done as per following the use of WPM(WORDS PER MINUTE), CPM (CHARACTERS PER MINUTE), ACCURACY of the typed words. The project uses the efficient use of java and advanced java concepts to develop this project into final successful result.

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