PROJECT 1 :
TYPING SPEED CALCULATOR

Varcons Technologies Pvt Ltd
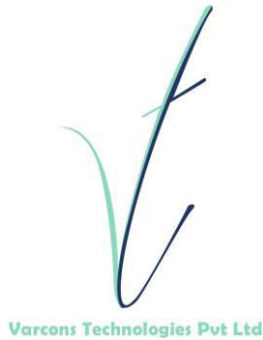
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ACKNOWLEDGEMENT

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 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 favour received from every person.

ABOUT THE C0MPANY:

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!

 Some of our services include:

Development - We develop responsive, functional and super-fast websites. We keep User Experience in mind while creating websites. A website should load quickly and should be accessible even on a small view-port and slow internet connection, We develop sophisticated customisable softwares using Java and other programming Languages as per the clients needs'

Mobile Application - We offer a wide range of professional android, iOS & Hybrid app development services for our global clients, from a start up to a large enterprise.

 Design - We offer professional Graphic design, Brochure design & Logo design. We are experts in crafting visual content to convey the right message to the customers.

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

 Videos - We create a polished professional video that impresses your audience

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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.

As the groups were created by the company it was difficult to contact each and every person and coordinate as a team..

The purpose of making groups are to make numerous ideas come together and create a combination of all the ideas. Since the teammates were didn't know each other it took a lot of time for few people to speak up about what they wanted and their way of doing the project.

Overall it was a very new experience which made us learn about a lot of things including teamwork and what it actually means.

<u>SOFTWARE AND HARDWARE REQUIRMENTS FOR JAVA PROJECT :</u>

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
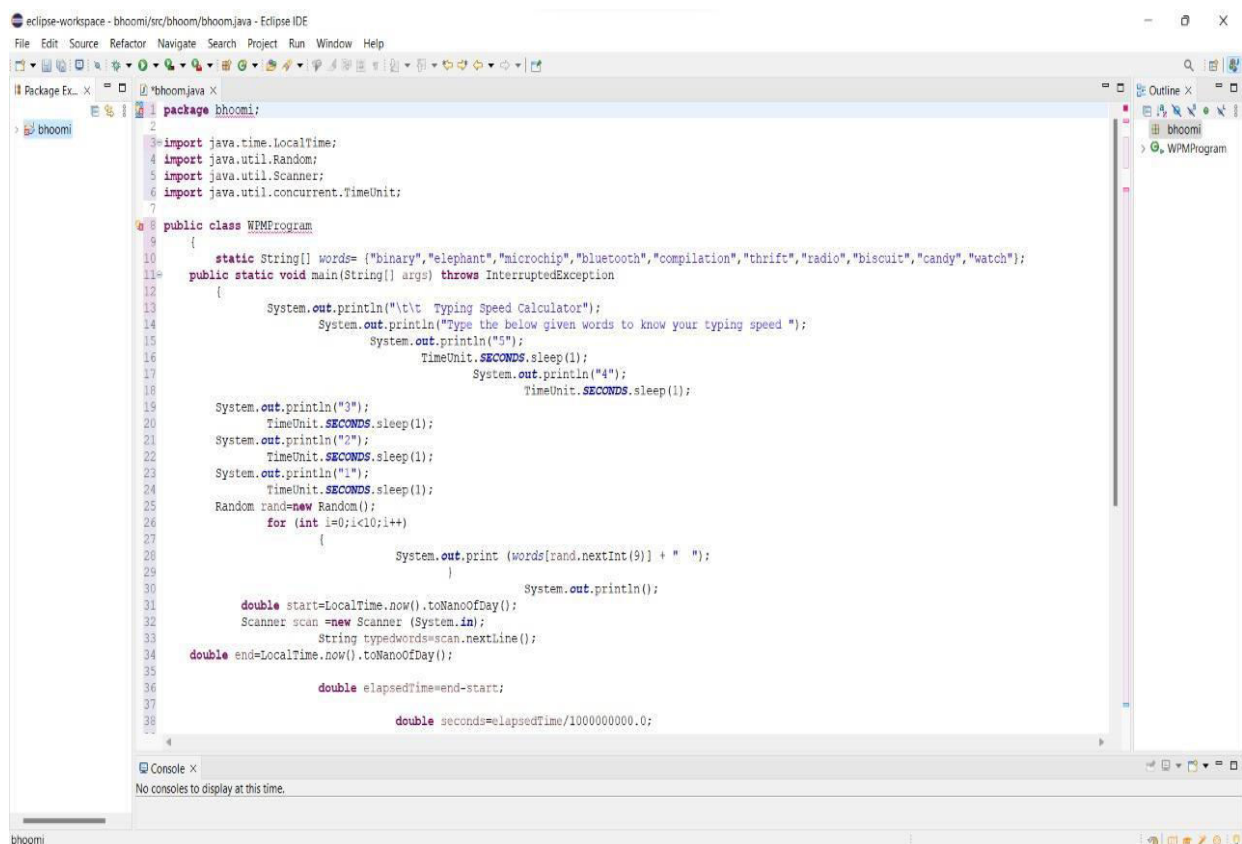- Mouse, keyboard and sound card

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.
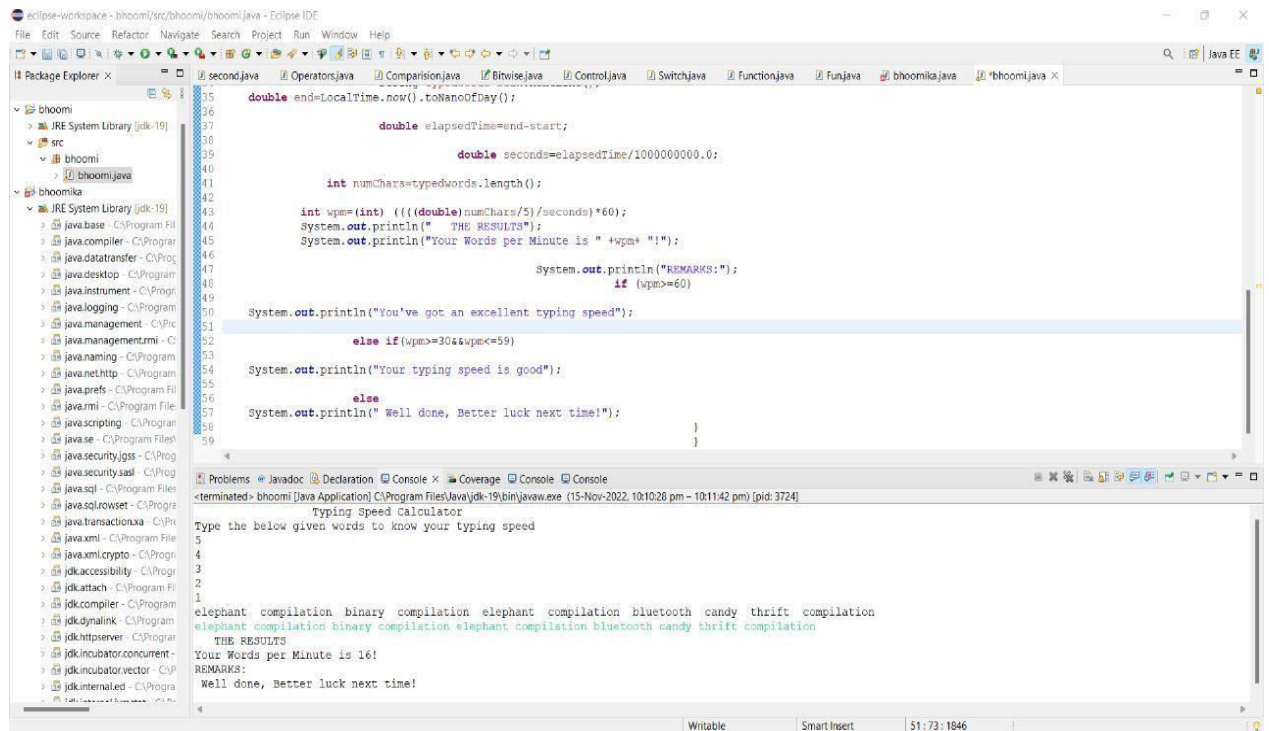
IMPLEMENTATION OF THE PROJECT with Screenshots:

Project Name


```java
double end=LocalTime.now().toNanoOfDay();

        double elapsedTime=end-start;

                double seconds=elapsedTime/1000000000.0;

        int numChars=typedwords.length();

        int wpm=(int) ((((double)numChars/5)/seconds)*60);
        System.out.println("   THE RESULTS");
        System.out.println("Your Words per Minute is " +wpm+ "!");

                                System.out.println("REMARKS:");
                                if (wpm>=60)

System.out.println("You've got an excellent typing speed");

                else if(wpm>=30&&wpm<=59)

System.out.println("Your typing speed is good");

                else
        System.out.println(" Well done, Better luck next time!");
                                }
                                }
```

```
                Typing Speed Calculator
Type the below given words to know your typing speed
5
4
3
2
1
elephant  compilation  binary  compilation  elephant  compilation  bluetooth  candy  thrift  compilation
elephant compilation binary compilation elephant compilation bluetooth candy thrift compilation
   THE RESULTS
Your Words per Minute is 16!
REMARKS:
 Well done, Better luck next time!
```

Code with comments:

```java
Public class WPMProgram
{
Static String[] words=
{"binary","elephant","microchip","bluetooth","compilation","thrift","rad
io",
"biscuit","candy","watch"};
public static void main(String[] args) throws InterruptedException
{ /*Executable section begins*/
System.out.println("\t\t Typing Speed Calculator");
System.out.println("Type the below given words to know your typing
speed
");/*Instruction to the user*/
System.out.println("5");
TimeUnit.SECONDS.sleep(1);/*code to sleep for one second as unit code
is
imported in the program*/
System.out.println("4");
TimeUnit.SECONDS.sleep(1);
System.out.println("3");
TimeUnit.SECONDS.sleep(1);
System.out.println("2");
TimeUnit.SECONDS.sleep(1);
System.out.println("1");.
TimeUnit.SECONDS.sleep(1);
Random rand=new Random();/*Generating random number between 0
to
9*/
for (int i=0;i<10;i++)
{
System.out.print (words[rand.nextInt(9)] + " ");
}
System.out.println();
double start=LocalTime.now().toNanoOfDay();/*gets the current
nanosecond during the start*/
String typedwords=scan.nextLine();/*store String into typedword
variable*/
double end=LocalTime.now().toNanoOfDay();/*gets the current
nanoseconds
of the during the ending*/
double elapsedTime=end-start;
double seconds=elapsedTime/1000000000.0;
int numChars=typedwords.length();/* (x characters / 5) /1 min=y WPM
*/
```

```java
int wpm=(int) ((((double)numChars/5)/seconds)*60);
System.out.println(" THE RESULTS");
```
/*Prints the results*/
```java
System.out.println("Your Words per Minute is " +wpm+ "!");/*
System.out.println("REMARKS:");
if(wpm>=60)
```
/* Checks for the value of words per minute and
prints the suitable remarks*/
```java
System.out.println("You've got an excellent typing speed")
else if(wpm>=30&&wpm<=59)
System.out.println("Your typing speed is good");
else
System.out.println("You can improve in your typing speed");
}
```
}/*Executable section ends*/

```java
1   package org.com;
2
3   import java.lang.*;
4   import java.util.*;
5
6   public class Calculator
7   {
8       private int solution;
9       private static int x;
10      private static int y;
11      private char operators;
12
13      public Calculator()
14      {
15          solution = 0;
16          Scanner operators = new Scanner(System.in);
17          Scanner operands = new Scanner(System.in);
18      }
19
20      public int addition(int x, int y)
21      {
22          return x + y;
23      }
24      public int subtraction(int x, int y)
25      {
26          return x - y;
27      }
28      public int multiplication(int x, int y)
29      {
30          return x * y;
31      }
32      public int division(int x, int y)
33      {
34          solution = x / y;
35          return solution;
36      }
37
38      public void calc(int ops){
39          x = 4;
40          System.out.println("operand 2: ");
41          y = 5;
42
43          switch(ops)
44          {
45              case(1):
46                  System.out.println(addition(x, y));
47
48          //      operands.next();
49                  break;
50              case(2):
51                  System.out.println(subtraction(x, y));
52              //  operands.next();
53                  break;
54              case(3):
55                  System.out.println(multiplication(x, y));
56              //  operands.next();
57                  break;
58              case(4):
59                  System.out.println(division(x, y));
60              //  operands.next();
61                  break;
62          }
63      }
64      public static void main (String[] args)
65      {
66          System.out.println("What operation? ('+', '-', '*', '/')");
67          System.out.println(" Enter 1 for Addition");
68          System.out.println(" Enter 2 for Subtraction");
69          System.out.println(" Enter 3 for Multiplication");
70          System.out.println(" Enter 4 for Division");
71
72          Calculator calc = new Calculator();
73          calc.calc(1);
74
75
76      }
77  }
78
79
80
```

CONCLUSION:

**Java is an object-oriented programming language. It is a general-purpose
programming language which is designed to run developed java code on all
platforms that support Java without recompilation.
In this project 'THE TYPING SPEED CALCULATOR' , You can calculate typing
speed with the words per minute (wpm) formula. In this java program, we'll
create a countdown timer and random word generator, get user input and
give back the typing speed!**

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