PROJECT 1: TYPING SPEED CALCULATOR



NAME : PRERANA V

USN : 1AM21CD027

E-MAIL : preranavs1812@gmail.com

AMC ENGINEERIN COLLEG

BANGALORE 560083

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 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!

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

INDEX

NO.S	TITLE	PAGE NO.
1	Brief overview on project	01
2	Advantages and challenges while completing project	01
3	Software and hardware requiement for project	02
4	Implementation of project	03-05
5	Conclusion	06
6	Bibliography	07-08

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.

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

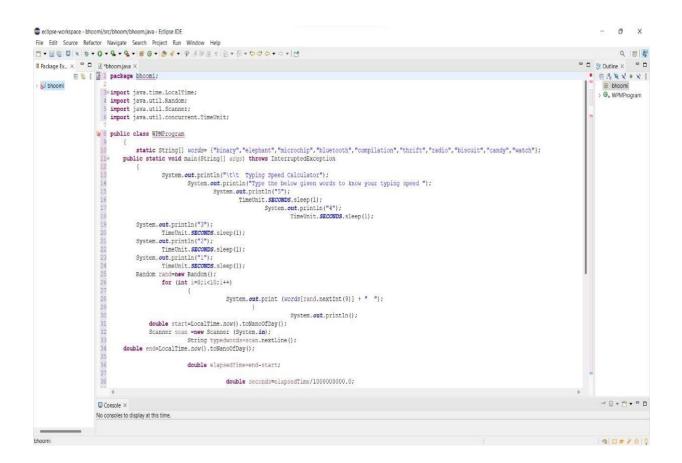
Software requirement for Java:

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.

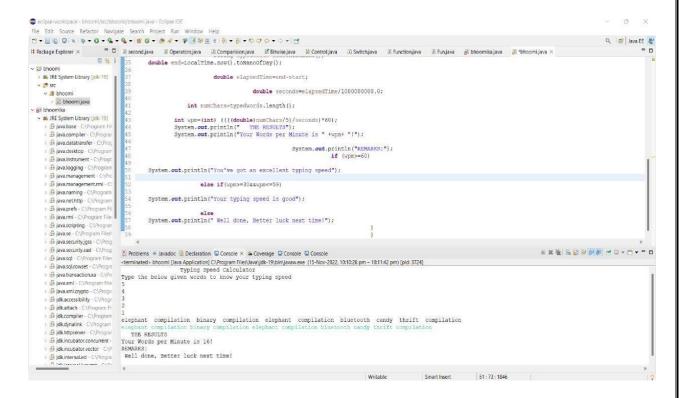
The software require for project includes package necessary to successfully compile and build the program.

- 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:



Project Name



Code with comments:

Package basics;

Import java.time.LocalTime;

Import java.util.Random;

Import java.util.Scanner;

Import java.util.concurrent.TimeUnit;

```
Project Name
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
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
```

*/

```
int wpm=(int) ((((double)numChars/5)/seconds)*60);
System.out.println("THE RESULTS");
/*Prints the results*/
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*/
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*/</pre>
```

CONCLUSION:

Java is an object-oriented programming language. It is a generalpurpose

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 count down timer and random word generator, get user input and $% \left(1\right) =\left(1\right) \left(1\right) \left($

give back the typing speed!

BIBLIOGRAPHY:

- "Core Java™, Volume I--Fundamentals (8th Edition)", by Cay S. Horstmann, Prentice Hall; 8
 edition (April 18, 2008).
- "Effective Java (2nd Edition)", by Addison-Wesley; 2 edition (May 28, 2008).
- "Java The Complete Reference, 8th Edition", McGraw-Hill Osborne Media; 8 edition (June 22, 2011).
- A Programmer's Guide to Java SCJP Certification: A Comprehensive Primer (3rd Edition), Addison-Wesley Professional; 3 edition (December 29, 2008).
- "More Java Pitfalls: 50 New Time-Saving Solutions and Workarounds", by Michael C. Daconta (Author), Kevin T. Smith (Author), Donald Avondolio (Author), W. Clay Richardson (Author), Wiley; 1 edition (February 3, 2003).
- "Head First Servlets and JSP: Passing the Sun Certified Web Component Developer Exam ", by Bryan Basham (Author), Kathy Sierra (Author), Bert Bates (Author), O'Reilly Media; Second Edition edition (April 1, 2008).
- "Head First Design Patterns", Elisabeth Freeman (Author), Eric Freeman (Author), Bert Bates (Author), Kathy Sierra (Author), Elisabeth Robson (Author), O'Reilly Media; 1 edition (November 1, 2004)
- "EJB 3 in Action", Debu Panda (Author), Reza Rahman (Author), Derek Lane (Author), Manning Publications; 1 edition (April 16, 2007).
- "JBoss: A Developer's Notebook", Norman Richards (Author), Sam Griffith (Author), O'Reilly
- Enterprise Java[™] Security: Building Secure J2EE[™] Applications, Marco Pistoia (Author), Nataraj Nagaratnam (Author), Larry Koved (Author), Anthony Nadalin (Author), Addison- Wesley Professional; 1 edition (February 27, 2004).

PAGE NO:07

Project Name

- "Java EE 6 Development with NetBeans 7", Author: David Heffelfinger, Published: June 2011, PACKT Publishing, UK. NetBeans IDE 7.0 Cookbook, Author: Rhawi Dantas, Published: May 2011, PACKT Publishing, UK
- "Art of Java Web Development: Struts, Tapestry, Commons, Velocity, JUnit, Axis, Cocoon, InternetBeans, WebWork", Neal Ford (Author), Manning Publications (November 1, 2003).
- "Struts 2 in Action", Don Brown (Author), Chad Michael Davis (Author), Scott Stanlick (Author), Manning Publications; 1 edition (May 1, 2008).
- "Hibernate in Action (In Action series)", Christian Bauer (Author), Gavin King (Author), Manning Publications (August 1, 2004) "Web Services Essentials (O'Reilly XML)", Ethan Cerami (Author), O'Reilly Media (February 2002).
- "Object-Oriented Software Construction (Book/CD-ROM) (2nd Edition)", Bertrand Meyer (Author), Prentice Hall; 2nd edition (March 21, 2000).
- Java Black Book, Steve Holzner (Author), Steven Holzner (Author), Paraglyph Press; Second Edition edition (July 1, 2002)

Project Name	