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|  | **SUKKUR IBA UNIVERSITY**  MERIT – QUALITY – EXCELLENCE | | | |  | |
| Assignment Java IDE | | | | | | |
| Object Oriented Programming (CSE-211), Spring 2021 | | | | | | |
| Group member | | Name: | CMS ID#: | Group | | Marks |
| 1 | |  |  |  | |  |
| 2 | |  |  |  | |  |
| 3  (if applicable) | |  |  |  | |  |
| **NOTE: Submit in two weeks** | | | | | |  |

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| Group member | Describe role is preparing assignment |
| 1 |  |
| 2 |  |
| 3  (if applicable) |  |

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| RUBRIC | | | | | |
| **Criteria** | **Fully meets criteria (80~100 %)** | **Almost meets criteria (60~79%)** | **Progressing to meet criteria (40~59%)** | **Below Expectations (0~39%)** | **Total out of 100%** |
| **Java IDE proficiency** | Excellent | Good | Average | poor | 100% |
| **Guidance required** | No | Little | yes | Lot of guidance required | 100% |
| **Readability of screenshots** | Excellent | Good | Average | poor | 100% |
| **Demo** | Perfect | Acceptable | Somewhat acceptable | Unacceptable | 100% |
| **Methodology** | Planned task extremely well and followed instructions | Planned task well and followed instructions | Planned and followed task instructions roughly | Did not plan well and did not follow instructions fully | 100% |
| **Submitted on time** | Yes | Less than 1 day late | Less than 3 days late | A week or later | 100% |
| **Followed guidelines to solve assignment** | Excellent | Good | Average | poor | 100% |
| **Cheating** | Not at all | Minor | Yes | Fully copied | 100% |
| **Minimum score in any of the criteria** | | | | | 100% |

**Java IDE: (Title here)**

**Objectives**

* Choose a Java IDE and get the title approved.
* Prepare a document which describes following procedures in detail along with screenshots for chosen Java IDE:
* Java IDE title
* Website link
* Downloading procedure
* Installation
* Setting-up IDE if required
* Creating project/class
* Compiling/executing project/class
* Viewing output
* Demonstrate whole procedure
* Submit assignment MS-word file through email as well as LMS and explain within two weeks.
* Subject of email🡺 Java IDE (IDE name here)

You can’t choose NetBeans IDE.

Basically, the IDE that I am going to share is for Visual Studio Code, a code-editor, in which, we can write and understand the code easily and it is just like Dev-C++, however, VS Code can accept almost all languages’ IDEs and compile them. So, if anybody is using VS Code, this guide might be helpful for them throughout setting up the Java Pack.

**Assignment solution**

**Java IDE Title:**

Visual Studio Code Java Pack

**Java IDE weblink:**

<https://code.visualstudio.com/docs/languages/java>

**Java IDE downloading procedure:**

After opening the link, select “Install Coding Pack for Java – Windows”. This will automatically begin the downloading process and once it has downloaded, install it (The installation process is, of course, easy 😉).

**Java IDE installation:**

Just hit the next button until you arrive at the page of “Install” button and hit that “Install” button already 😊.

**Java IDE setting-up if required:**

Now, we will install the extensions in our code-editor.

Go to (<https://code.visualstudio.com/docs/languages/java>) and scroll down to where “Install the Java Extension Pack” button lies. Click it if it does not work, we must install the mentioned extensions manually. Open VS Code and look for 4 rectangular boxes on your left side or press Ctrl + Shift + X and you will be redirected to the extension installer. We can find the search box just right next to it and search for:

* Language Support for Java(TM) by Red Hat
* Debugger for Java
* Java Test Runner
* Maven for Java
* Project Manager for Java
* Visual Studio Code IntelliCode

We will install all of them individually if the provided button does not work.

**Java IDE creating project/class:**

Now we will write a simple Hello World program and compile it. First, open the VS Code and open a folder in it where we will create the file and name it accordingly. Then we will write the code in the provided text-area. And click “Run” written above our “public class static” statement. This will automatically, successfully compile our first, basic, Java program.

**Java IDE compiling/executing project/class:**

Just hit “Run” written above our “public class static” statement. This will automatically, successfully compile our first, basic, Java program.

**Java IDE viewing output:**

The output will be according to our program. Since we wrote basic Java program of Hello World, we will definitely get “Hello World” output.