GUIDA INSTALLAZIONE

Il programma è stato realizzato utilizzando l’IDE Visual Studio Code e su un sistema operativo Windows, pertanto la seguente guida specifica i passaggi necessari per poter eseguire il programma correttamente su VSCODE e sul sistema operativo Windows.

**1.** Requisiti Iniziali:

1. Java Development Kit 17.0.1 ( [Clicca qui](https://www.oracle.com/java/technologies/downloads/#java17) per il download );

2. MySQL 5.7 o versioni successive ( durante l’installazione impostare la porta di default 3306 e lasciare il percorso di installazione di default ); ( [Clicca qui](https://dev.mysql.com/downloads/mysql/5.7.html) per il download )  
3. Installare Mysql connector all’interno della cartella lib del progettoCLI e progettoGUI, basandosi sulla versione del connettore presente nel percorso:

*C:\Program Files (x86)\MySQL\Connector J 8.0*

**2.** Esecuzione Script su MySQL:

Dopo aver installato MySQL, bisogna eseguire lo Script contenuto nel file “*provac.script.sql.txt”* presente nel   
percorso “*progetto\server\src\database\provac.script.sql.txt”* che andrà a creare:

1. Il DataBase ‘Map’;   
 2. La Tabella ‘provaC’ all’interno del DataBase Map;  
 3. L’utente “Student” con password “map”;  
 4. Effettua l’inserimento dei valori all’interno della tabella *“provaC”*.

I passaggi necessari per eseguire lo script sono i seguenti:

1. Avviare il cmd scrivendo sulla barra di ricerca di Windows *“cmd”* oppure *“prompt dei comandi”*, digitare il comando *“cd”* per poter cambiare directory e inserire accanto ( separato da uno spazio ) il percorso relativo alla cartella bin contenuta nella cartella “mysqlServer”, presente all’interno della cartella mysql installata sulla propria macchina;  
  
   
  
 2. Effettuare l’accesso con le proprie credenziali su mysql digitando il comando:

*mysql –u nomeutente –p*

(dove nome utente sta per un utente già presente in mysql) successivamente digitare la password;  
 3. Dare il comando source percorso del file, dove percorso del file è il percorso dove si trova il file:

*provac.script.sql.txt.*

**3.** Configurazione Visual Studio Code:

Prima di tutto è necessario scaricare il file compresso del progetto e, successivamente, estrarlo in una cartella a piacere.  
Per eseguire il progetto è necessario che sia stato, oltre che installato come detto in precedenza, configurato il jdk. Per poter fare ciò è necessario aprire Visual Studio Code e digitare il comando rapido *ctrl+maiusc+p* sulla propria tastiera, il quale permetterà di aprire la command palette.

Immagine che contiene testo

Descrizione generata automaticamente  
( command palette di Visual Studio Code )

Una volta fatto ciò digitare “Java Configure Runtime” sulla barra di ricerca e selezionare il comando.   
In seguito apparirà una tabella, dove andare a selezionare la versione di jdk.

Immagine che contiene testo

Descrizione generata automaticamente

Per poter utilizzare il database è necessario che venga scaricato nella cartella *“lib”* del server il connettore di mysql, come precedentemente citato.

Immagine che contiene testo

Descrizione generata automaticamente  
( mysql connector all’interno della cartella “lib” )

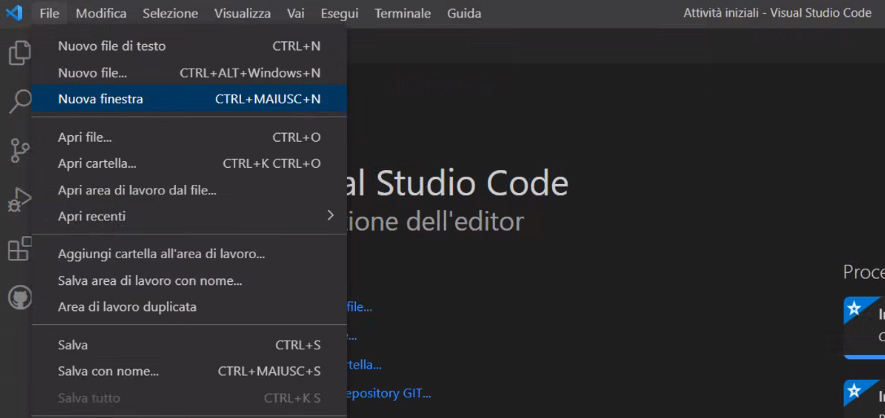
Per poter eseguire il progetto aprire due finestre di Visual Studio Code, andare nella sezione file e cliccare sull’opzione “nuova finestra”, in una finestra sarà aperta la cartella del client e nell’altra finestra sarà aperta la cartella del server.

ATTENZIONE!!!

E’ necessario aprire tutta la cartella client e server non le loro sottocartelle (lib, src ecc..).

**4.** Esecuzione su Visual Studio Code ( Versione da linea di comando ):

Aprire VSCODE e aprire il progetto denominato Client e il progetto denominato Server su due finestre differenti.



## Server

1. Aprire la cartella del progetto;  
 2. Aprire la cartella “*server*”, presente all’interno della cartella “*progettoCLI*”;  
 3. Aprire la cartella *“src”;* 4. Aprire la cartella “server” ed eseguire il file “*Multiserver.java*”.  
  
 Client  
 1. Aprire la cartella del progetto;  
 2. Aprire la cartella “*client*”, presente all’interno della cartella “*progettoCLI*”;  
 3. Aprire la cartella *“src”;* 4. Aprire la cartella “client” ed eseguire il file “*Client.java*”.

Una volta avviato il server procedere avviando il client.  
E’ possibile avviare solo un Server, non è possibile avviare più di un Server.

**5.** Esecuzione su Visual Studio Code ( Versione con interfaccia grafica ):

La procedura per avviare il software con l’interfaccia grafica è pressoché identica alla procedura per avviare il software con interfaccia a linea di comando. L’unica differenza si trova nella cartella da aprire, subito dopo aver aperto la cartella del progetto. Ovviamente è fondamentale avviare prima il server e poi il client.   
La procedura è la seguente:

## Server

1. Aprire la cartella del progetto;  
 2. Aprire la cartella “*server*”, presente all’interno della cartella “*progettoGUI*”;  
 3. Aprire la cartella *“src”;* 4. Aprire la cartella “server” ed eseguire il file “*Multiserver.java*”.  
  
 Client  
 1. Aprire la cartella del progetto;  
 2. Aprire la cartella “*client*”, presente all’interno della cartella “*progettoGUI*”;  
 3. Aprire la cartella *“src”;* 4. Aprire la cartella “client” ed eseguire il file “*Client.java*”.

E’ importante notare che alla prima esecuzione il file “*launch.json*” ( presente nella cartella “vscode” del “*progettoGUI*” all’interno della cartella “*client*” ) non è strutturato correttamente. Bisognerà quindi modificarlo manualmente. Ciò dovrà essere fatto una volta, ovvero dopo la prima esecuzione.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/png;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHNlcmdpbwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzg5AACSkgACAAAAAzg5AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDpr2C2lsr8wiy+yQxJJaNEUMvVR82Pm53HIbv06VzNWZtQuJ7cQOY1iBBKxRLGGI6E7QNx+ue9VqA6BRRRQBLcf6wf7if+gioqluP9YP9xP8A0EVFQAUUUUAS3P8Ax9zf77fzqKpbn/j7m/32/nUVABUtt/x9w/76/wA6iqW2/wCPuH/fX+dAEVFFFABVjT72XTdStr63CmW2lWVA4yCVORn24qvRTTcXdCaTVmddY30njrXbHTtaYQW8QupQ9qmGBbfM33iQfm7ccd+9I3hmxvm0W40WDUJINQE++2kmjMi+UeT5mFVVIIySPl5PzdK5vT9QutLvFurGXyplVlDbQ3DKVPBBHQmrdn4j1WwW0W1uti2YkEKmNGAEn3wQQdwPo2RWqnF/F/TuYyhNP3P63/Wx10XgbR28m6me6S2ksZbgwwXsNwwdJVTAmRdhBDDtkH16VJefD/SE1DFnPdm1gW8M4uLiKNnMDqgAdgFQFmHLZwBn2rlpvGeuzKiteIqJC0CJHbRIqxllYqFVQAMqDx/U0xvF2uNcpO19l1aZsGJNreccyBlxhgx/hII9qtzpdun4mXs6+/N/wxfv2i8J3vm6HPBMuo6fJBNA9zHctb78oyl4jtJ43A8deRxVC41iDXvFI1HxMsq28u0XAsAA+1UCjbvJGeB196zr6/m1GcS3CW6MF2gW9tHAuP8AdRQM89cZp2mand6NqUOoabL5N1A26OTaG2nGOhBB61i5Xduh0RhZX6/1/kV5fL85/I3eVuOzf97HbOO9W9N1a40sXH2UJ/pCBGLjOAGDcfitVJZXnmeWU7nkYsxxjJPJplZ20szW9ndG6s/9q2HiDULqKI3D+XICF+4WlGdueR6VHomlRXsUk93BM8CyLHvW6it1BOSfmk4Y4H3R+dUbHU7rTlmW2MeyYASJLCkqsAcjhgR1qeHxBqFuZPJeBBJIJdotYtquBgMq7cKcd1xUcrSaRrzRk05f1uX7zw7BZkoZZHZdVayJ4AKADnGOvNTx6DpUUhF2bx92qyWCCKRFwoK4ckqcnk8Y59RjnLj8SarFNNKtypeabz2ZoUbEn99cj5T7rioG1i+dgWnyVuTdj5F/1pxlunsOOlSoz6v+tP8AgludK7aX9a/8A0JtKsdMsnuNR+0XLNdyW8UcEqx4EfVmJVupIwMfjWhZWmn6houhWd6LkPc3M0URhdQEyyjLZBzzjgY781hRa5fxCYeZFKs0pmdJ4I5V3nqwVlIB57YqOLVbyE2him2/Y5DLBhF+RiQSenPIHWjlk1q/6sL2kFflX9XKsieXIyZztJGa6+x0B5fCYj/s6R5bm3lu1uvs+dhUjYm/HGVR+M87hXHsxdizcknJq4ur3yX0F4k5E9uipEwUfKqjAGMY6fn3qpxk1ZEwnCMm2tP6/Q2YdC0yVbK13Xf2y8sWuRJvURxkKxAxjJB2HuMe9B0LTDHHbo139sk077aJGdfLU7NxXGMkHB5yMccGql74jmksba2sSIVS0FvM3koHb5iSA4G7acjjIHXijUfEU1xawW1kfJiWzjt5T5KK77QMjeBuKkgcZ/Coam/69f8AgGilSS2/rT/g/eRP4jvZNJOnsIvJMCW+Qp3bVcuO/XJx9KyaK3dT8SfbfC2maFBbNFb2LNKXllEjM7fexhRtXOSF5PPU1tZJaHO5OVrswqKKKZIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWhc6WtvpUN4tykrSSmNkQZCEKD97v17ce9Z9asl1p/9gJZxzXJmSYzAtAoUkqBtzvzjjrj8KOgdR8+g+VbXZjnaS4slVrhPKwi56gPnkj0IHQ46Vj10OoeIY7uKd0a4824i8vyGAEUJJBdlweSceg6nJNc9R1DoFFFFAEtx/rB/uJ/6CKiqW4/1g/3E/8AQRUVABRRRQBLc/8AH3N/vt/Ooqluf+Pub/fb+dRUAFS23/H3D/vr/Ooqltv+PuH/AH1/nQBFRRRQAVY09LWTUrZNRkeK0aVRO8Y+ZUz8xHB5xnsar0U07O4mrqx0Nzo2najeWVj4Qlub+8necPFLheFc+XgkLyUGT7+nSoJvCOtwXlpavZbprxmSERzI4LKcOCVYhSvfdjHfFM8K6tDoXia11G5WRo4d+REAW5RlGMkdyO9TeGPEbaLqUbXnmXFl5csTRcP5YkXazqj5UnpwRhsYNax5JP3tDGXtIt8uq/4f8tCE+FtXF/b2i2ySSXMbSRPFPG8ToudzeYrFMDByc8d6J/C+rW8pjeCJz9ka93RXMUimFSQXDKxB5B4Bzx0rdXxbZic21xd3Nxp8ljPa/utLt7U25lwSyxxvtflRnJFXb/VNM0p9IH+ltYXXh6S083YplXfJKN+zcB1/h3dD1OOa9nBxun/Wv+SJ9pUTtb+v66HJW/hvVbmSBYrYfv7Y3SO8qKgiBILsxICDKkfMR+opw8MasdSksTbossUIndnuI1iEZxh/MLbNpyMHODmulj8ZaPbCKyt4rprIaWtk889pDK6usrSBxE5KMpJHyk5HY5GTRHiZG1trl9au1hW0FqhTRbba0eSTG0HmCPbznv8AQUShST0ff9f+ACnV6r8/L/glLRvCNzq95fW/2uzhazt3lLfa4WDlV3AA7wCD3cEhe9R2GnaRbzXsHiO7eKWJY/I+xSpMrksu75k3KcISeD1GOvFXYfEGjweLr68t7KW20y9tpLZkhRQ6b49rOqZ2j5stsBwM4B4rnLtbVLplsJppoBja80QjY8c5UMwHPuah8sbNalLnldS02/Q0U0RtX8SXOn+F1e9iDyNbGRlRniXJDHdtGdoz2+lZFXdJ/sv7eP7d+1/ZNjZ+x7fM3Y+X73GM4z7VSrI3NTSYdFlT/icXNxC3nouIhn92QdzfdPI4/PoadpdjY30OoLItx5tvbyTxSLKAuFxgFSuT165FZNbGh3mnWUV4b6a6WS4t3twsNurgBsfNkuvPHTH41Ek7No1ptXSaKljpF7qS5tEjbLbFDzIhdvRQxBY8jgZ6j1pItKvZjaCODJvJDFACwG9gQCOTxyR1xW3oWt6PpcduZYZPNguTI0gs4pGmTjb8znMZGD93P170WGvaWkthNfLeBrC8knRIUUiQMwYZJYbSCOmDn1HUS5SvotClCHLvqZcPhzVJ7VbiO2BjdXZMyoDJtzu2gnLEbTkDJ/MVDFpF5LYC82xRwHdsaadIy+3rtDEFse2eeK1bXxBawXmkSvHMVskmWQBRk72cjHP+0PSqk99YahpVpHdyXMFzZwtCgihV0kG4spJLKVOSQeD6+1HNPt/Wv/AKlCkn7r/rT/g/cS3fhm5XT7S7sozJHJZ/aJN8qBsgndtXIJAGOgOM1D5Gif2Tv+1XH277Pu8vHy+b5mNv3emznr+ParMWu2yXlnKUl2waa9owAGS5VwCOenzj9eKwKaUm7P8ArVkNwSTX9aL/AIIUVuXWmaXbeDbW8a7zrE9yQLaOeORfI253sF5Rtxxhjn2rDrTqYhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUhglWBZmicRMSqyFTtJHUA1HXQ3sGozeEYZbq3uDsuWbLREBY9igHpgL+lHS4dbGE0EqQpM0TrE5IRyp2sR1we9R10Oo2+oy+FbWW7t7j5J3JLREBE2oF7YC9h2rnqOtg6XCiiigCW4/1g/wBxP/QRUVS3H+sH+4n/AKCKioAKKKKAJbn/AI+5v99v51FUtz/x9zf77fzqKgAqW2/4+4f99f51FUtt/wAfcP8Avr/OgCKiiigAqa0tZr69htLVPMnnkEcaZA3MTgDJ461DTopZIZUlhdo5EYMjocFSOhB7GmrX12E720L2p6FqOjpC+pW/krM0ixnerbjG2x+hPRhj+VZ9dV4RupLzU7yTUwuoi0066nijvR5yK4Uvna3+1yfU12WsaBaahrNrDZWen2bxX86Lss1O5Vto5MeWMeY24sQp47fd4rdUeaLktv8AN2Od1+WXLLz/ACueT28El1cxW8C7pZXCIucZJOAOal1HTrrSdRmsNQi8m5gbbIm4NtP1BINd14j0a6tp/D0+l6S0upTQzedC2jxIzhW4L2y70BCt1xnoTg1JPpCaX8QvEbXOiwi2hsrm5tILi1xC20AqyrgAjPpSdJq3z/DUPbrdf1rY89trW4vblLezgkuJ5DhIokLMx9gOTV628O6rdaudKFr5F/x/o93Itu5JxgASFck5GB1Nd1DGt3o839mQW8GtanoCMkdrEsRnxO4lCKoA3NGg4A5wa5/wvomtp460aG5sLwvaXEMjxGNma2j8zPzL1jGcnnHXPfNXGh78YS6v9Wv0uHtm4yltb/K//AOUkjaGV45Bh0Yqwz0Iptdxovh6+Ot6409nJHPagMLd9LF3OweTAKQSEKRjq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t/T/wA/w+7qfEXhC+t9b1N9OstunxyXMkR81eIopNrcE54LAep96wNR0660nUJbHUIvJuYSA6bg2MjPUEjoaq0VrCMopJu/9eplUlGcnJK13/XQyvEP/IPT/rqP5GubrpPEP/IPT/rqP5Gubrwcw/jn0GXfwPmwooorgPRCiiigAooooAK1LvU7O402G0is5oBCvyhbgFWfu7DZkk/XjtWXRQBf+328NhNb2dvKjXCqsryzBxgHPACjHIHXNUKKKACiiigCW4/1g/3E/wDQRUVKST1Oe3NJQAUUUUAdMJf7K8AGOK7hjvb+7yy21wrSNb+XysmwkhSxHyNjkdOK5miisaVL2d3u27lOV0kFFFFbEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFTW15PaMxt5NhbrwDn86hopxk4u6diZRUlaSui9/bV//AM9//HF/wo/tq/8A+e//AI4v+FUaK1+sVv5n97Mvq9H+Rfci9/bV/wD89/8Axxf8KP7av/8Anv8A+OL/AIVRoo+sVv5n97D6vR/kX3Ivf21f/wDPf/xxf8KP7av/APnv/wCOL/hVGij6xW/mf3sPq9H+Rfci9/bV/wD89/8Axxf8KP7av/8Anv8A+OL/AIVRoo+sVv5n97D6vR/kX3Ivf21f/wDPf/xxf8KP7av/APnv/wCOL/hVGij6xW/mf3sPq9H+Rfci9/bV/wD89/8Axxf8KP7av/8Anv8A+OL/AIVRoo+sVv5n97D6vR/kX3Ivf21f/wDPf/xxf8KP7av/APnv/wCOL/hVGij6xW/mf3sPq9H+Rfci9/bV/wD89/8Axxf8KP7av/8Anv8A+OL/AIVRoo+sVv5n97D6vR/kX3IsXN/c3ahbiXeoOQMAc/hVeiis5SlJ3k7msYxgrRVkFFFFSUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//Z)  
 ( struttura file “launch.json” al primo avvio )

Spostare il *vmargs*, presente nella riga 20 del file *“launch.json”* ( come mostrato nella figura precedente ), dalla seconda configurazione alla prima configurazione. Successivamente salvare il file.

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/png;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHNlcmdpbwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzg1AACSkgACAAAAAzg1AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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zUkV0k80UXirUJRLaOLqKQW7mVHTcQMbsHAzgj5uOeeKydYaI/ZQBb/AGoRf6QbYLszk4+78ucYzjj8c1PRAZlFFFMCW3/1h/3H/wDQTUVS2/8ArD/uP/6CaioAKKKKAJbWFLi5SKW5itUY8zShiq/XaCfyBqfVtMuNG1WfT7zYZYGwSjZVgRkMD6EEH8ap10vjwxjxK0bKxu0hiFxMGwkp8pMFUxlOOD8zZPPHSuaU5KvGHRp/hbX8fy8y0k4tnNUUUV0kBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA6T75ptOk++abQAUUUUAFFFFABRRRQA6N/LYnGflI/MY/rTaKKACiiigCW1uXtLlJ4liZ0OQJYlkU/VWBB/EU+/v7nVL+a9v5TNcTNukcgDJ+g4H0FV6Knkjzc9te47u1goooqhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//2Q==)

( struttura file “launch.json” modificato )

**6.** Esecuzione programmi con file BATCH:

Questa è la sezione in cui viene spiegato come eseguire i programmi senza doverli aprire dall’IDE.

Nelle cartella progetto è presente una sottocartella denominata “*filejar*”. All’interno di questa cartella si troveranno i seguenti file:

Immagine che contiene tavolo

Descrizione generata automaticamente  
 ( contenuto della cartella “filejar” )

Nella cartella src sono presenti due sottocartelle:

- CLI: contiene i file *.jar* corrispondenti al client e al server eseguibili da linea di comando;

-GUI: contiene i file *.jar* corrispondenti al client e al server, all’interno della quale, nella finestra del client, sarà avviata l’interfaccia grafica.

Per poter eseguire i file con estensione *.jar* della cartella “*GUI”* ( quindi relativi alla versione del software con l’interfaccia grafica ) cliccare due volte sul file *“GUI.bat*”. Altrimenti, se si vuole eseguire la versione dell’applicazione da linea di comando, eseguire il file *“CLI.bat*”.

L’esecuzione in entrambi i casi aprirà due finestre, una per il server e una per il client ( naturalmente verrà avviata prima la finestra del server ).