# Shri G. S. Institute of Technology and Science

CO24997: programming practices

November 21, 2022

#### MINI PROJECT: UNIT CONVERTER:

starting date : 13/11/22 ending date : 21/11/22

The project is coded in two languages c and java

#### 0.1 UNIT CONVERTER:

project is made on unit converter. Unit converter enables conversion and switching the base unit to converting unit. In this project we use 5 quantities for converting into unit, for ex. meter into kilometer and million to crores.

# five quantities are used in this project:

1. mass: kilogram and gram

2.temperature: kelvin and celcius

3.time: seconds and hours

4.currency: million and crores

5. length: kilometer and meter

## 0.2 IN C language:

no. of code line is : **205** In unit converter we use 10 user define function are:

- 1. float getgram(float kilogram);
- 2. float getkilogram(float gram);
- 3. float getmillion(float crores);
- 4. float getcrores(float million);
- 5. float getkelvin(float celcius);
- 6. float getcelcius(float kelvin);
- 7. float gethours(float seconds);
- 8. float getseconds(float hours);
- 9. float getkilometer(float meter);
- 10. float getmeter(float kilometer);

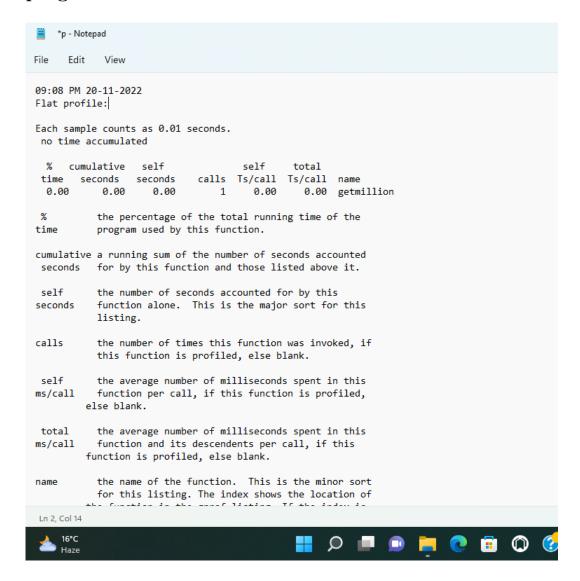
#### 0.2.1 debugging:

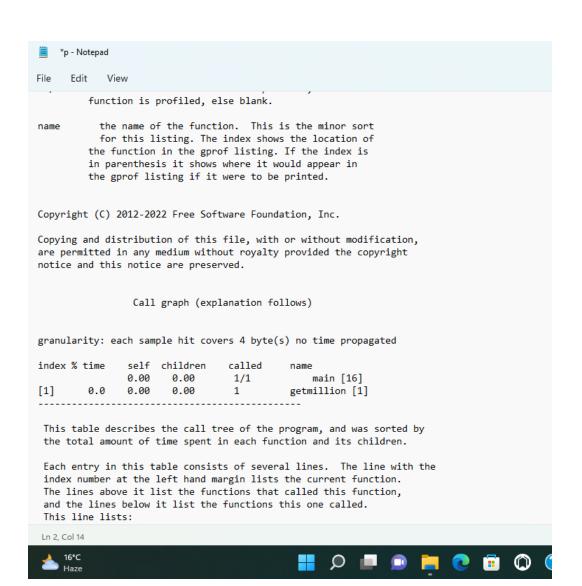
The screenshoot of debbuging of unit converter program are :

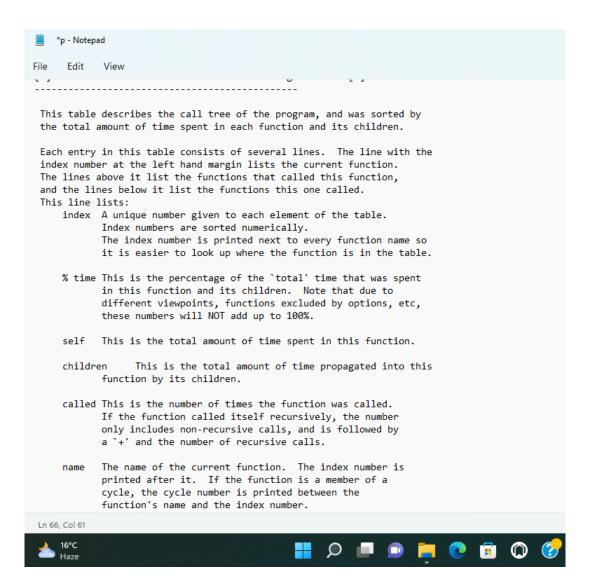
```
deepikamandroniyahp@LAPTOP-I3GJHV0P: ~
93 updates can be applied immediately.
51 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
This message is shown once a day. To disable it please create the
/home/deepikamandroniyahp/.hushlogin file.
deepikamandroniyahp@LAPTOP-I3GJHV0P:~$ project.c
project.c: command not found
deepikamandroniyahp@LAPTOP-I3GJHV0P:~$ gcc project.c
deepikamandroniyahp@LAPTOP-I3GJHV0P:~$ nano project.c
deepikamandroniyahp@LAPTOP-I3GJHV0P:~$ ./a.out
welcome to unit conversion!!
        please select the quantity you want to convert
Mass(m) , Currency(C) , Temperature(T) , Time(t) , Length(L)
welcome to unit conversion!!
please choose :
1 for getkilogram
2 for getgram
enter the value in gram to get kilogram
the conversion of gram in kilogram is 0.012
deepikamandroniyahp@LAPTOP-I3GJHV0P:~$ _
```

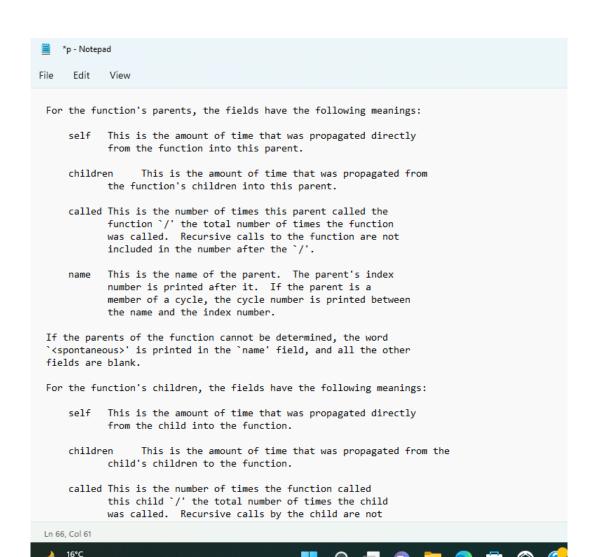
#### 0.2.2 profilling:

The screenshoots of profiling of unit converter program are :

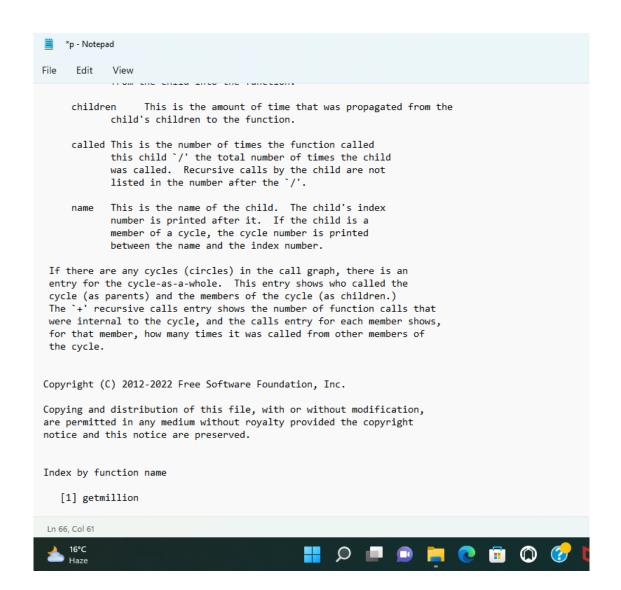






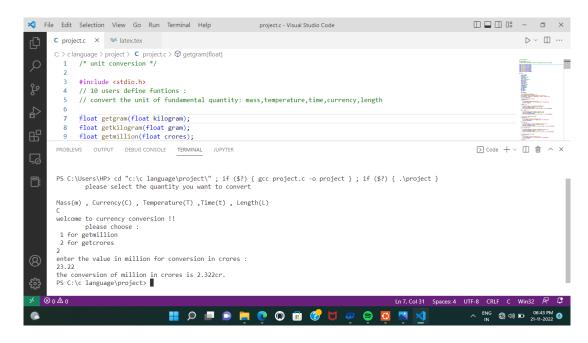


Haze



#### 0.2.3 CODE OUTPUT:

#### The screenshoot of c code output are:



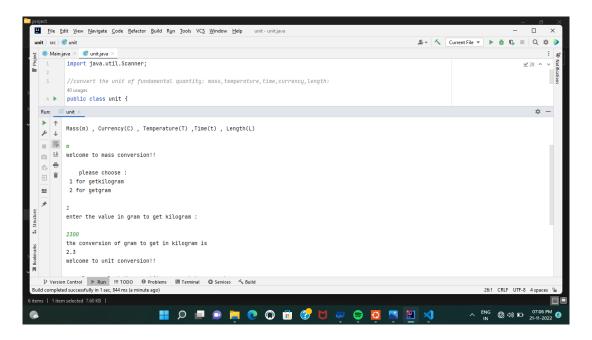
### 0.3 In java language:

no. of code line is: 168

The project made with 10 user define function in c language and now we convert into java language:

#### 0.3.1 CODE OUTPUT:

The screenshoot of java code output are:



#### END OF REPORT