DAY-5

I started by installing the dependencies needed for GTK-3.0

sudo pacman -S gtk3 atk pango glib2 gobject-introspection pkgconf base-devel
sudo pacman -S gtk3-demos gtk3-examples geany (Optional but useful)

Now, we will configure the file called - "c_cpp_properties.json" inside the .vscode folder of our main project directory.
We have to include the gtk files inside our project. Run the following command to get the paths:
pkg-config --cflags gtk+-3.0
Now, our file should look like this after including all the paths -

```
{

  "configurations": [

   {

     "name": "GTK Linux",

     "includePath": [

      "/usr/include/gtk-3.0",

      "/usr/include/pango-1.0",

      "/usr/include/cloudproviders",

      "/usr/include/cairo",

      "/usr/include/gdk-pixbuf-2.0",

      "/usr/include/at-spi2-atk/2.0",

      "/usr/include/at-spi-2.0",

      "/usr/include/atk-1.0",

      "/usr/include/dbus-1.0",

      "/usr/lib/dbus-1.0/include",

      "/usr/include/fribidi",

      "/usr/include/pixman-1",

      "/usr/include/harfbuzz",

      "/usr/include/freetype2",

      "/usr/include/libpng16",

      "/usr/include/gio-unix-2.0",
```

```
    "/usr/include/glib-2.0",

    "/usr/lib/glib-2.0/include",

    "/usr/include/libmount",

    "/usr/include/blkid",

    "/usr/include/sysprof-6"

   ],

   "compilerPath": "/usr/bin/gcc",

   "cStandard": "c11",

   "cppStandard": "c++17",

   "intelliSenseMode": "linux-gcc-x64"

  }

 ],

 "version": 4

}
```

Now, we will have simple app created with gtk which simply opens a window with a title. Just for testing only, that compiling and all the other things are working properly. No learning has been done till now of the syntax.

#include <gtk/gtk.h>

*int main(int argc, char *argv[]) {*
    *GtkWidget *window; gtk_init(&argc, &argv); window = gtk_window_new(GTK_WINDOW_TOPLEVEL);*
gtk_window_set_title(GTK_WINDOW(window), "Hello Kaushal");
gtk_window_set_default_size(GTK_WINDOW(window), 400, 200); g_signal_connect(window, "destroy",
G_CALLBACK(gtk_main_quit), NULL); gtk_widget_show_all(window); gtk_main(); return 0;

}

And now, compile and run the program.
gcc myapp.c -o myapp `pkg-config --cflags --libs gtk+-3.0`
./myapp