



MAD/LAB/02 -Create “Hello World” application. That will display “Hello World” in the middle of the screen in the cyan color with background image and change the app icon.

Step-1 open android studio.

If android studio start from welcome screen of android studio then

Click on **New Project**.

Select **empty Activity** form right side panel and click on next button.

Step-2 Write the Application name as **MADLAB02**

Select Language for Development is **Java**

Select Minimum SDK, scroll upside and choose android version **4.1 JellyBean**.

Click on **next** Button

Step-3 Your Application show two types of file in that select **activity_main.xml**

Right click on design page area and select **GOTO XML**.

Change the page layout as relative layout.

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MADLAB01">
```

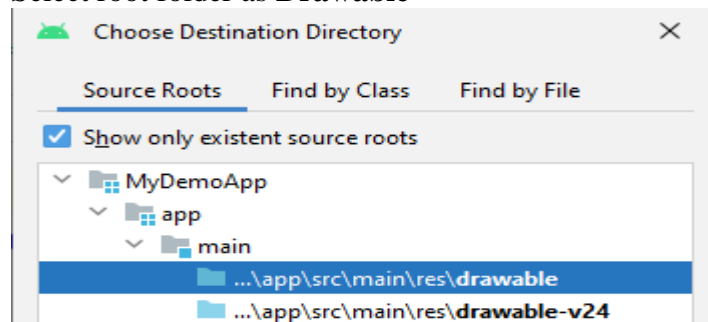
```
</RelativeLayout>
```

Step-4 Use **TextView** Control to show the text on screen.
Inside relative layout tag add **textview tag control**.

```
<TextView  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_centerInParent="true"  
    android:gravity="center"  
    android:text="Hello World"  
    android:textSize="34sp" />
```

Step-5 Change the background of page using image file
First download an image wallpaper from **Google** and give name as **imgwall.jpg**.
Copy the **downloaded image** file.

Step-6 Goto android studio expand res folder => select **drawable** folder.
Right click on **drawable** folder and paste image file.
Select root folder as **Drawable**



Click on ok button

Do not change image name and click ok button.

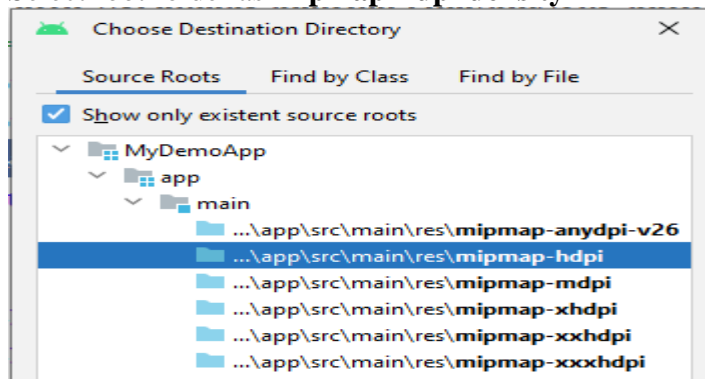
Step-7 Goto **activity_main.xml**
And add one line of code in **relative layout opening tag**.

```
android:background="@drawable/ imgwall"
```

Step-8 Change the app icon of your application using image file
First download a small size png icon file from **Google** and give name as **app_icon.jpg**.
Copy the **downloaded image** file.

Step-9 Goto android studio expand res folder => select **mipmap** folder.
Right click on **mipmap** folder and paste image file.

Select root folder as **mipmap-hdpi density**



Click on ok button

Do not change image name and click ok button.

Step-10 **Goto** android project structure.

Expand or double click on **Manifest Folder**.

You can see the **AndroidManifest.xml**.

Inside AndroidManifest.xml find the **application tag**.

Replace the **icon** attribute by following code.

```
android:icon="@mipmap/app_icon"
```

Replace the **roundIcon** attribute by following code.

```
android:roundIcon="@mipmap/app_icon"
```

FINISH

