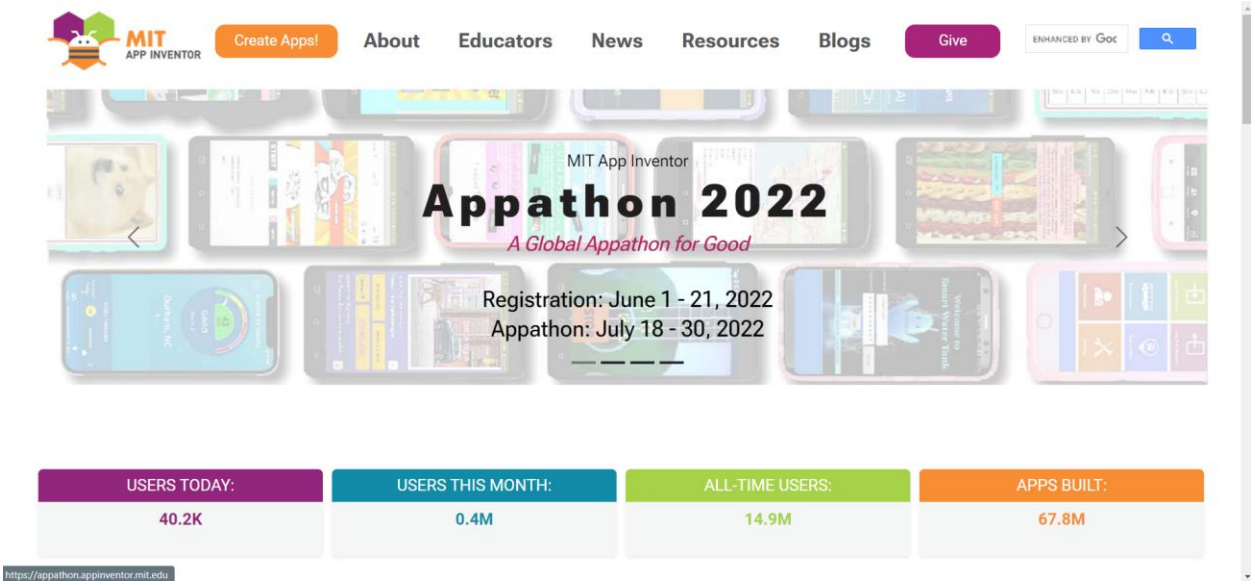
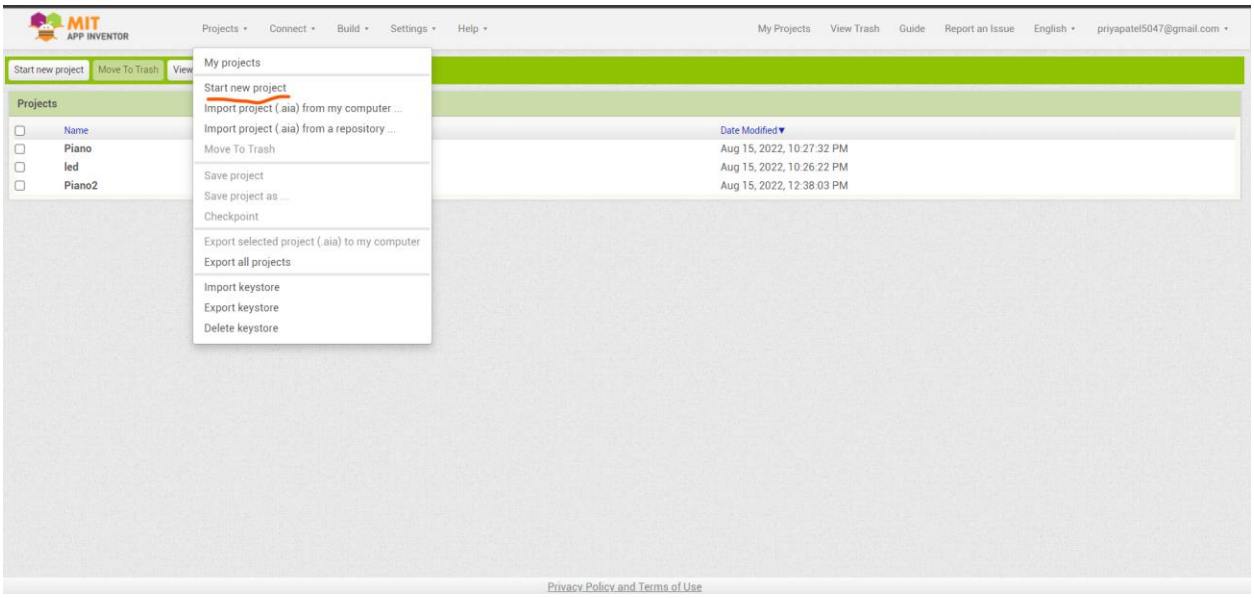
A step-by-step guide to creating an app

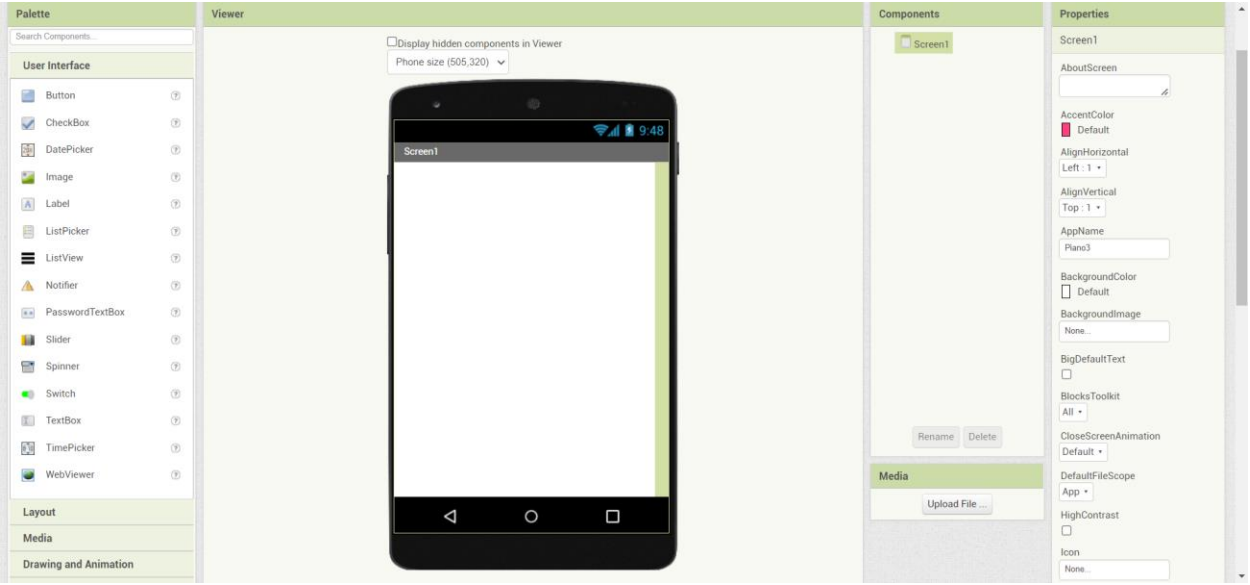
1. Go to https://appinventor.mit.edu/



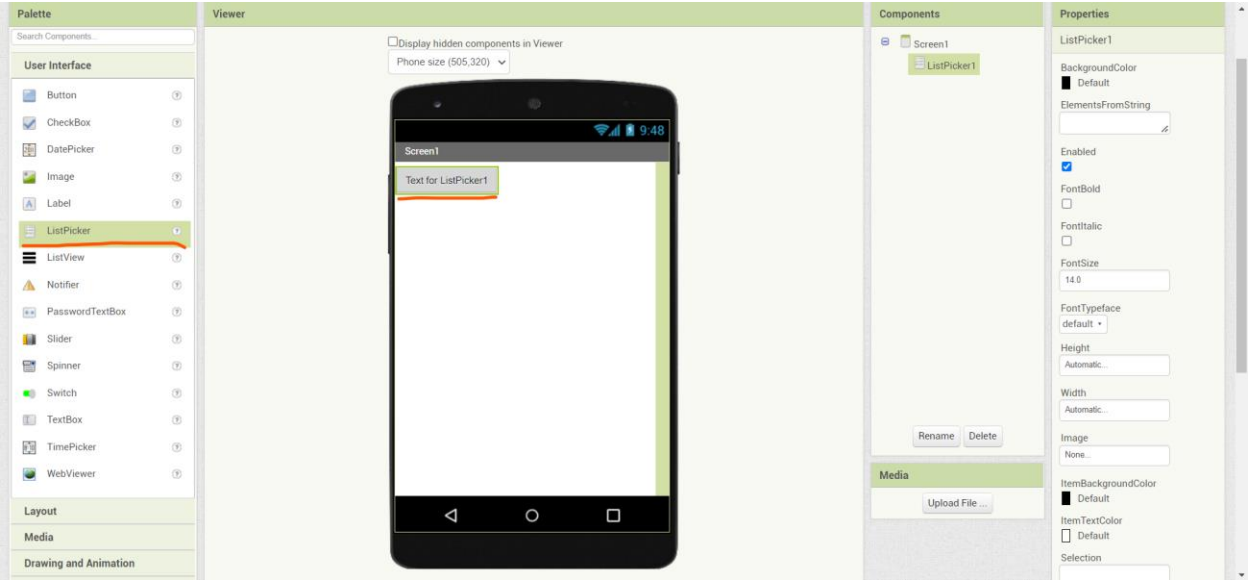
2. Click on “Create Apps” and then choose “Start a new project”



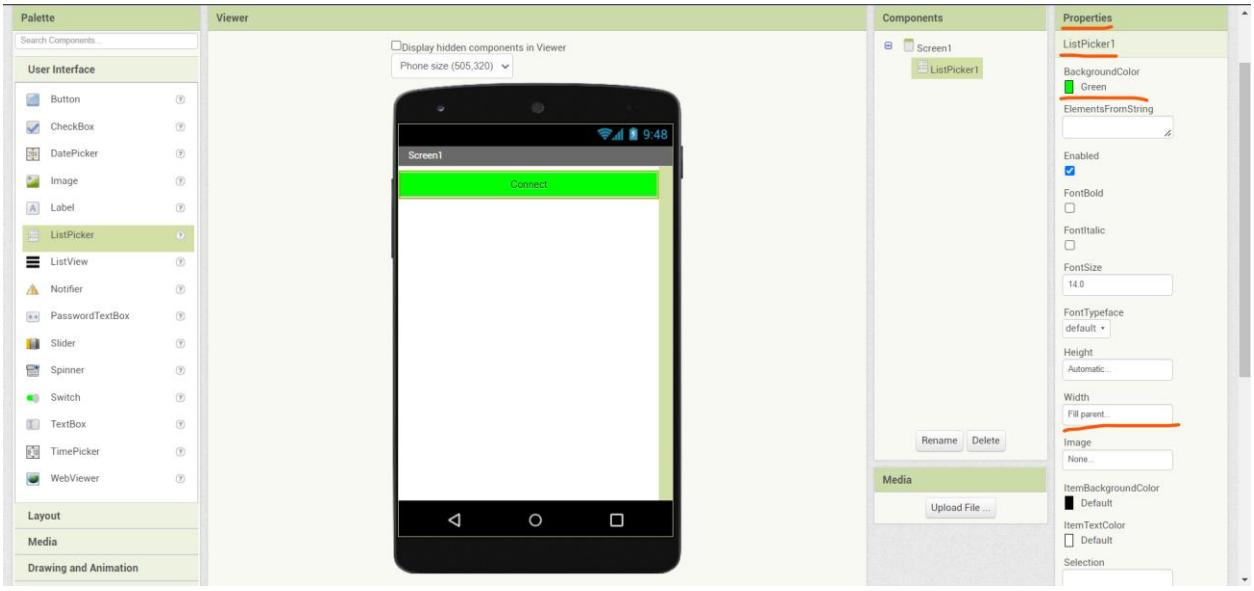
3. After clicking “Start a new project”, you should see the following page.



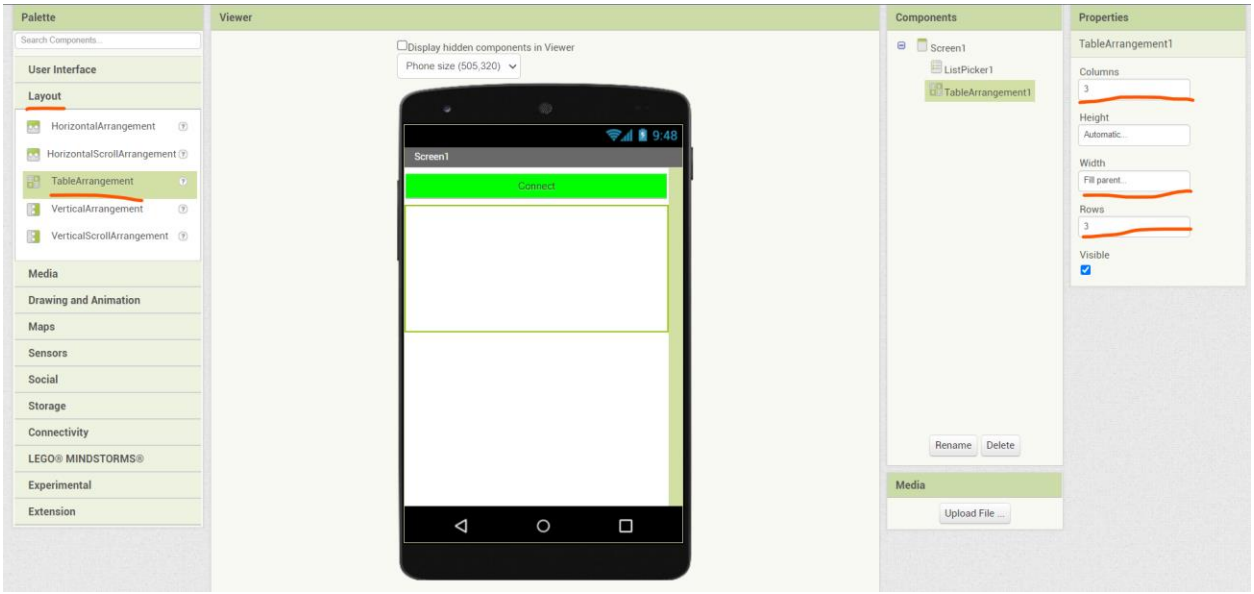
4. From “User interface”, drag and drop “ListPicker” on the screen



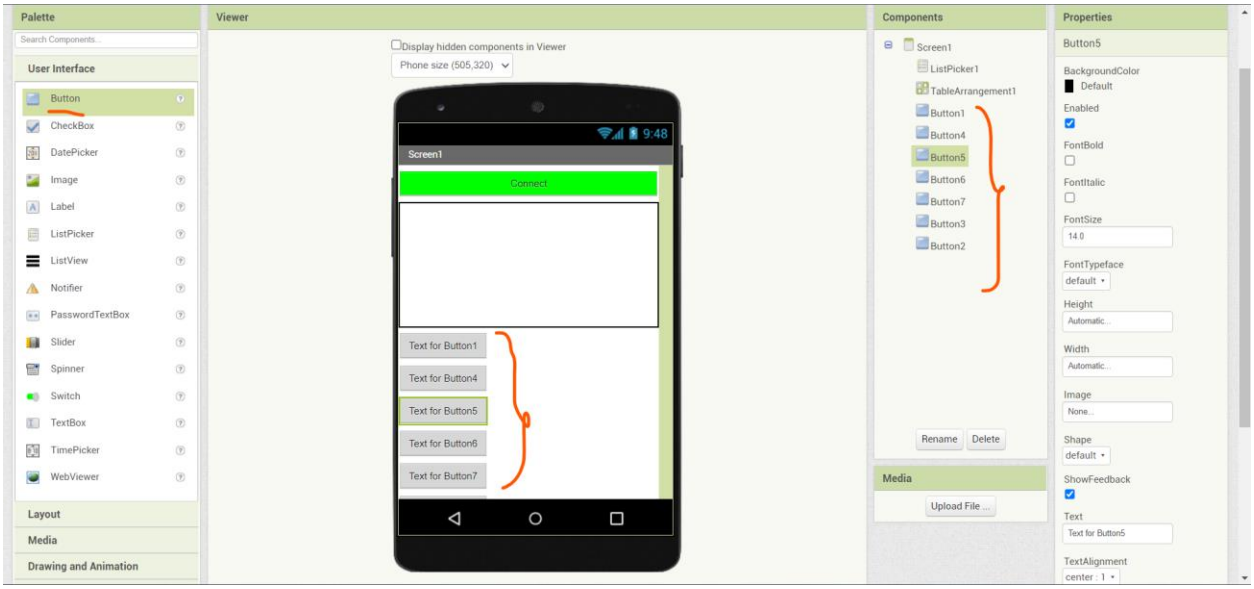
5. Edit the properties from the “Properties” tab on the right-hand side. Change color to green, width to “fill parent” and text to “Connect”.



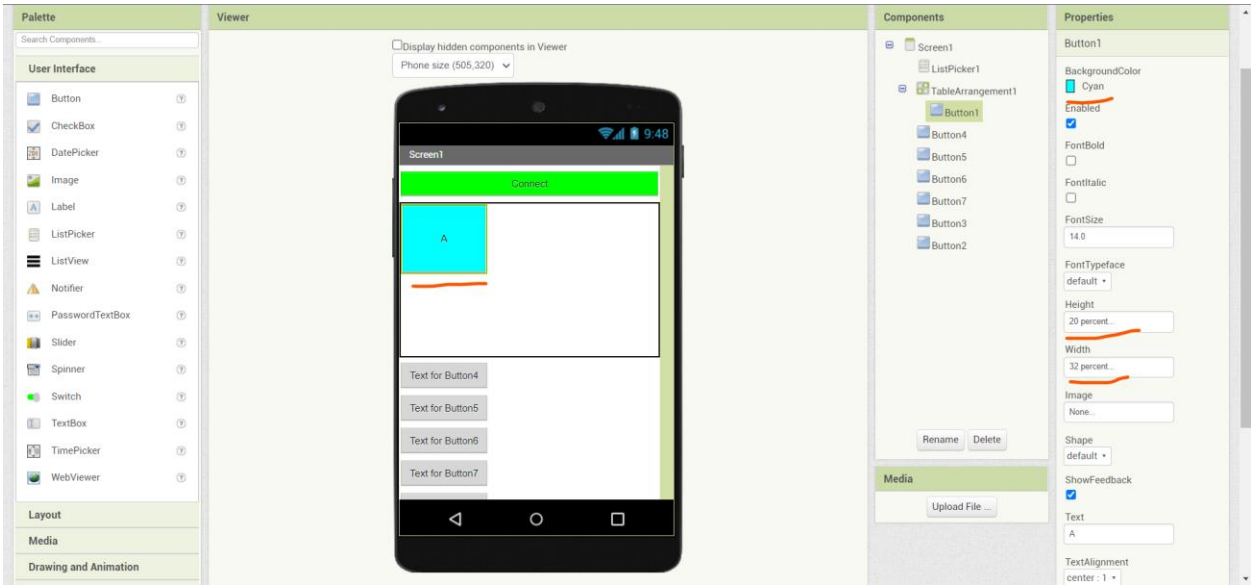
6. From Layout drag and drop “TableArrangement” to screen. Edit properties from the right-hand side tab. Change column to 3, rows to 3, and width to “fill parent”



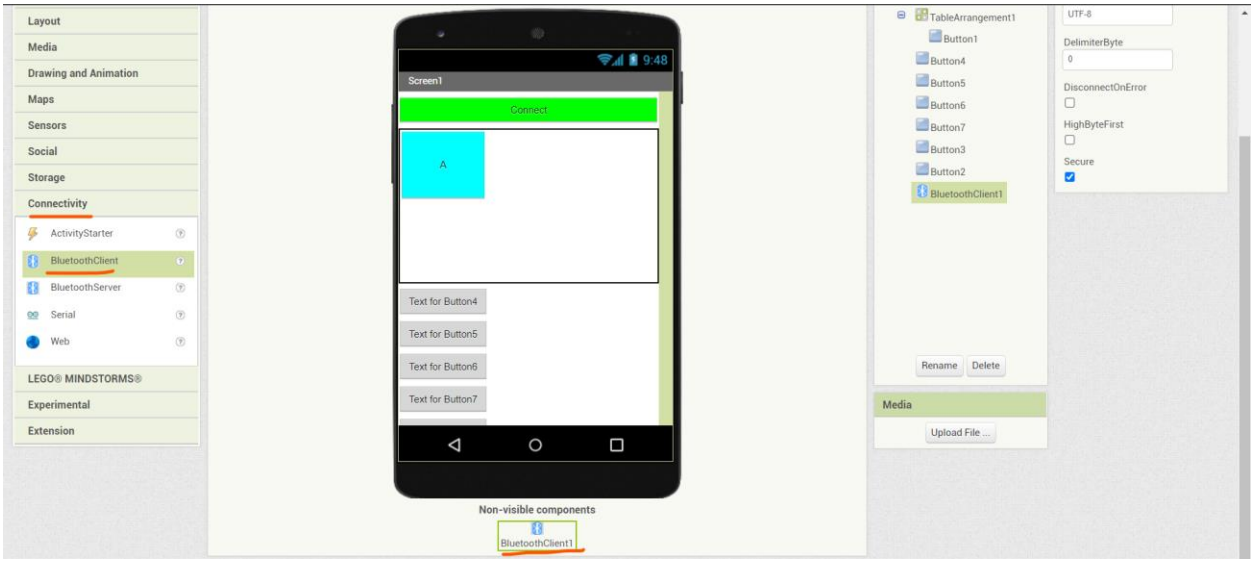
7. From the user interface drag and drop 7 buttons to the screen.



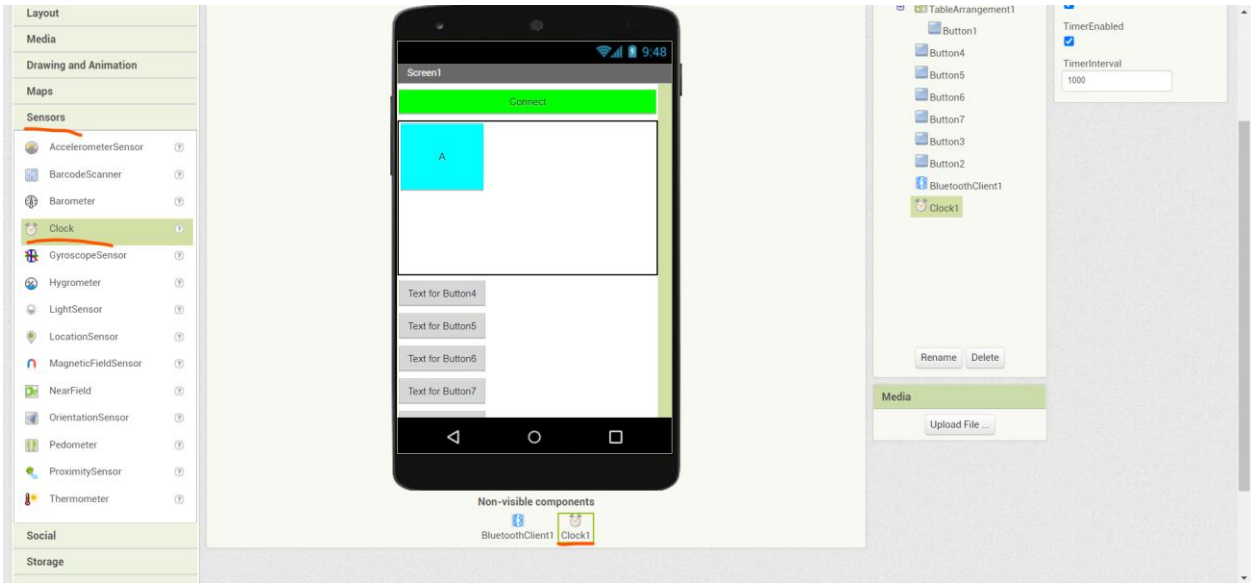
8. Drag and drop a ‘button’ from the screen to the ‘TableArrangement”. And edit the property of the button. Width to “32 %”, height to “20%”, Text to “A”, and color to your choice.



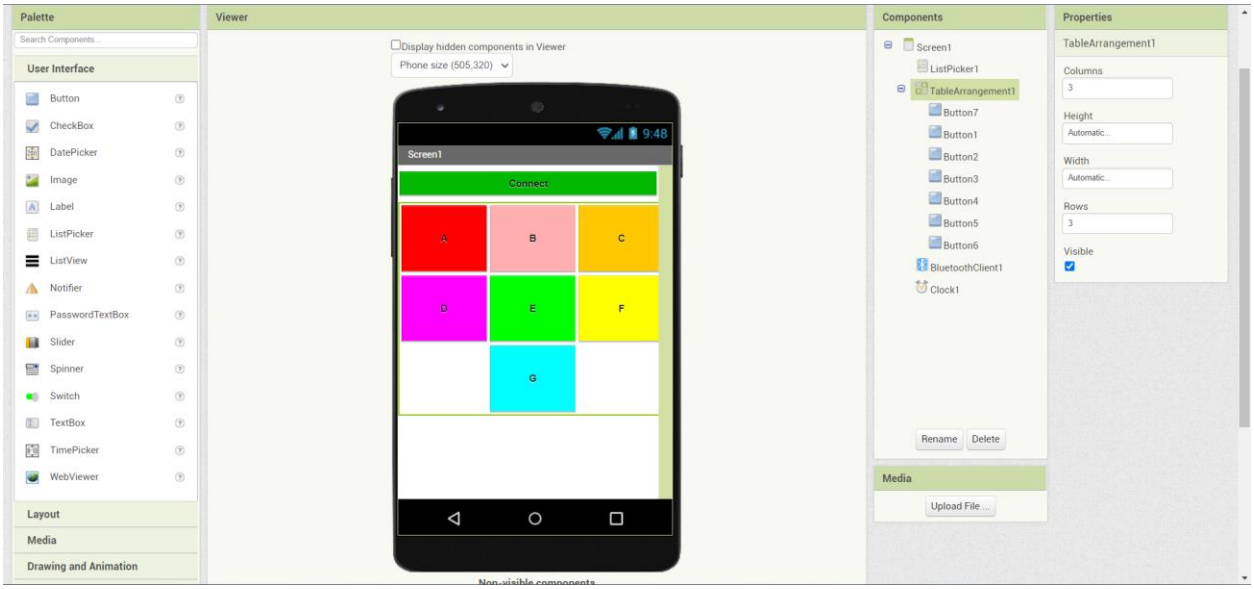
9. From “Connectivity” drag and drop “Bluetoothclient1”. You can see that at bottom of the phone.



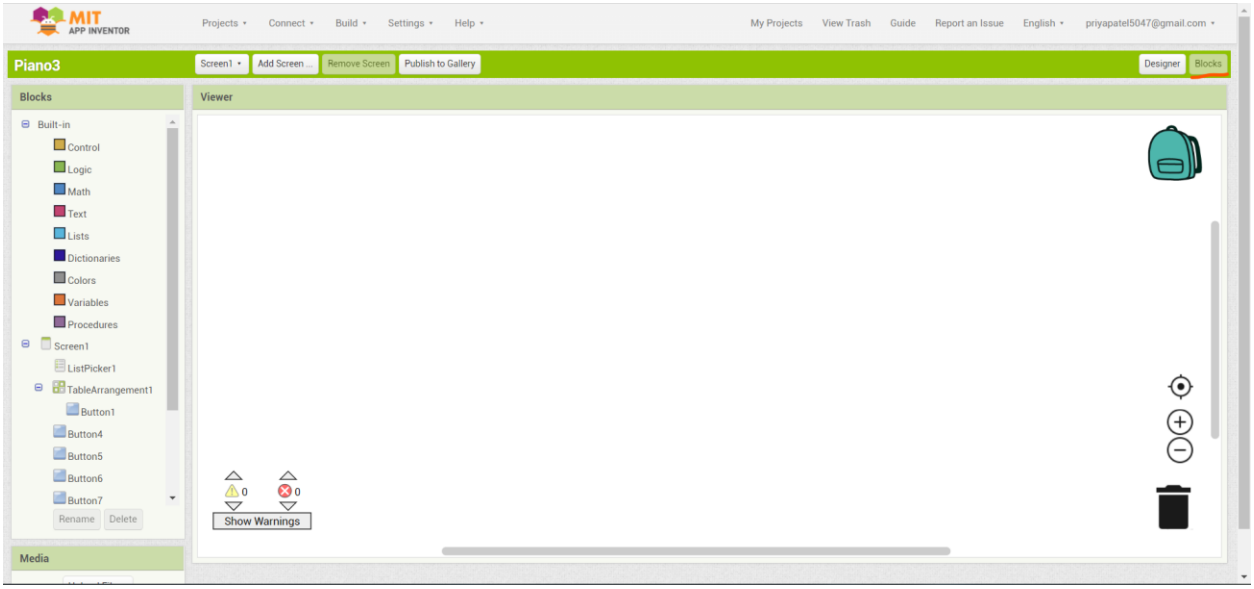
10. From “sensors” drag and drop “clock”. You can see that at bottom of the phone.



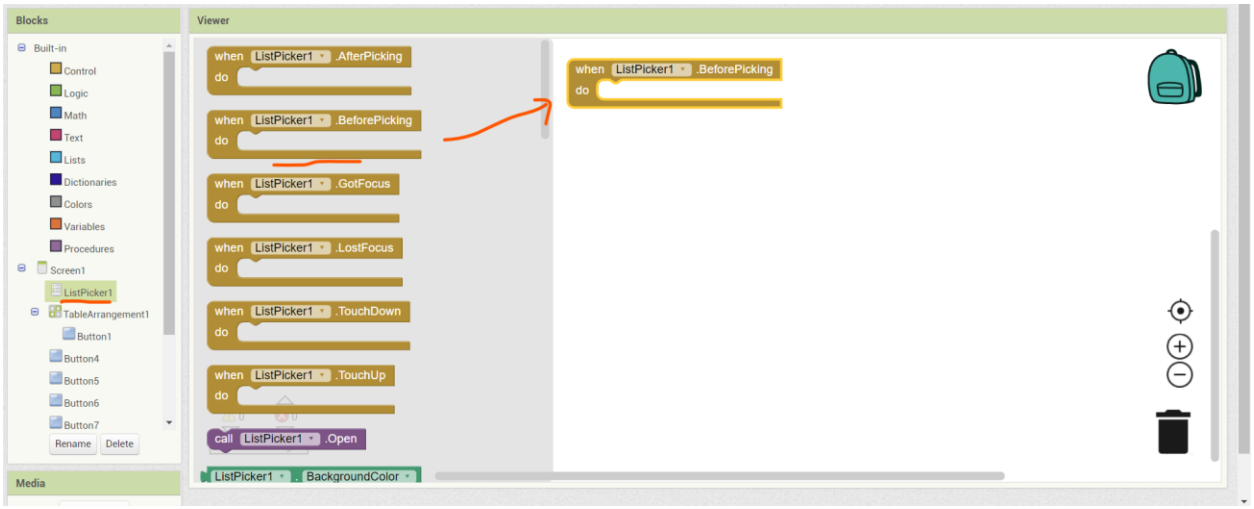
11. Do step 8 for all buttons. You should get results similar to the below-shown image.



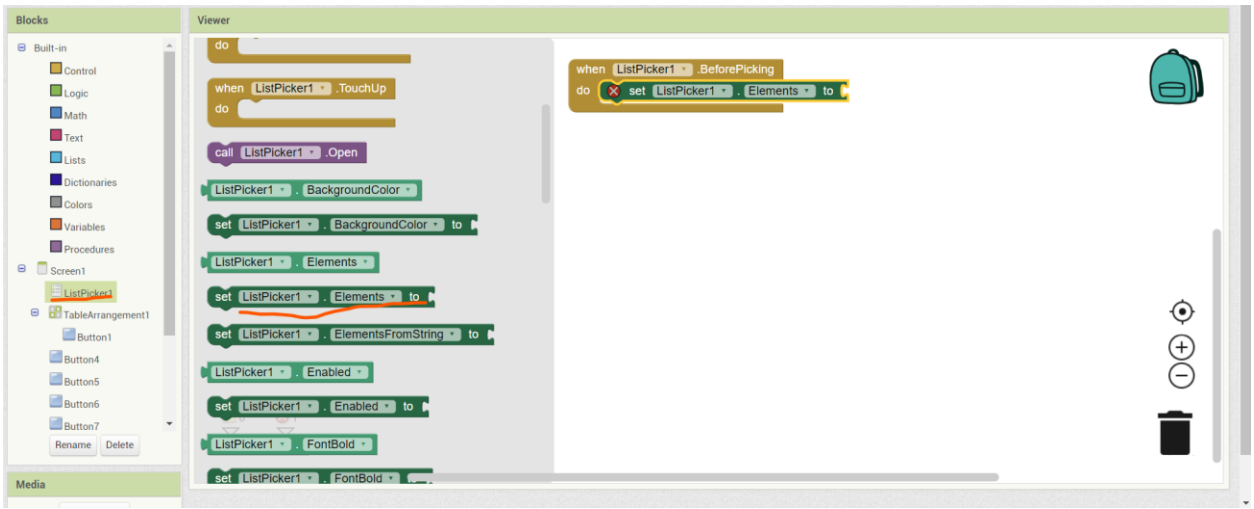
12. Click on “blocks” in the top-right corner.

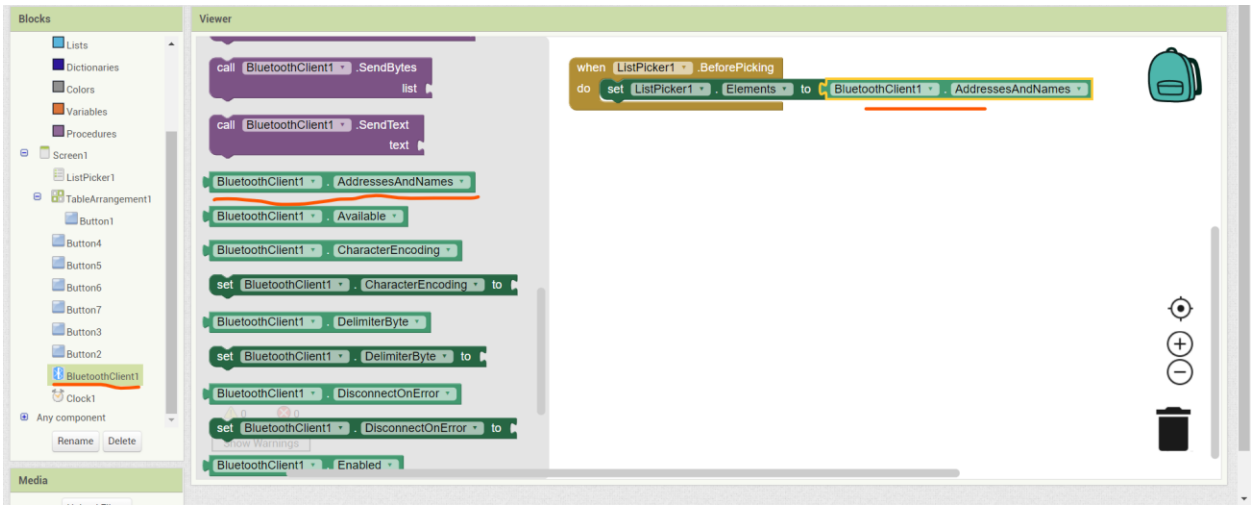


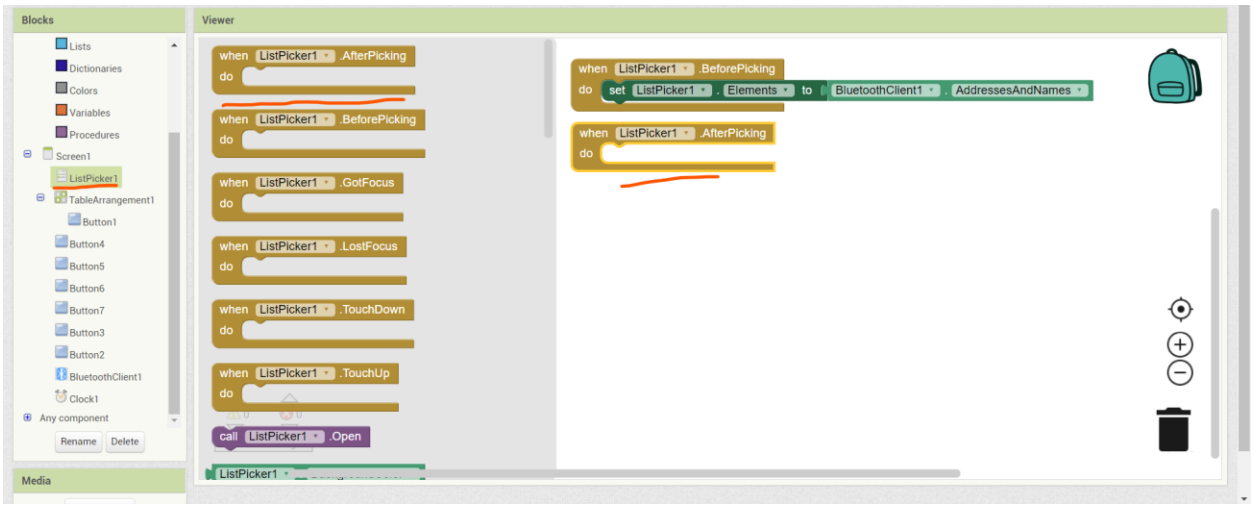
13. Choose “ListPicker1”. Drag and drop “when ListPicker1.BeforePicking”.



14. Now, drag and drop code blocks as shown in images.




Blocks
Viewer
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
ListPicker1
TableArrangement1
Button1
Button4
Button5
Button6
Button7
Button3
Button2
BluetoothClient1
Clock1
Any component
Rename
Delete
Media
call BluetoothClient1 .SendBytes list
call BluetoothClient1 .SendText text
BluetoothClient1 . AddressesAndNames
BluetoothClient1 . Available
BluetoothClient1 . CharacterEncoding
set BluetoothClient1 . CharacterEncoding to
BluetoothClient1 . DelimiterByte
set BluetoothClient1 . DelimiterByte to
BluetoothClient1 . DisconnectOnError
set BluetoothClient1 . DisconnectOnError to
BluetoothClient1 . Enabled
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames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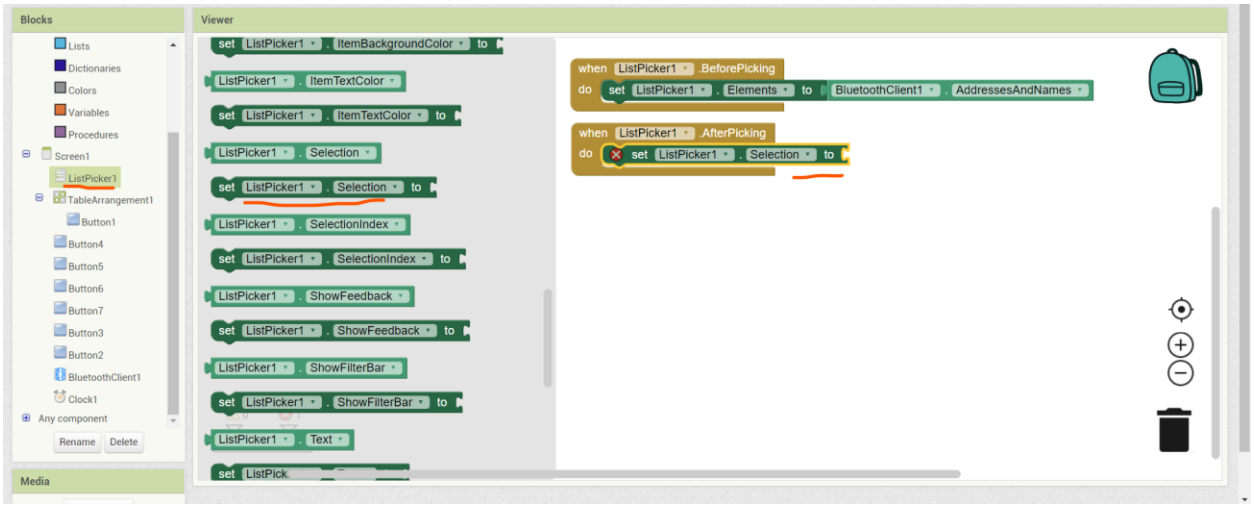
Screen1
ListPicker1
TableArrangement1
Button1
Button4
Button5
Button6
Button7
Button3
Button2
BluetoothClient1
Clock1
Any component
Rename
Delete
Media
when ListPicker1 .AfterPicking
do
when ListPicker1 .BeforePicking
do
when ListPicker1 .GotFocus
do
when ListPicker1 .LostFocus
do
when ListPicker1 .TouchDown
do
when ListPicker1 .TouchUp
do
call ListPicker1 .Open
ListPicker1
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames
when ListPicker1 .AfterPicking
do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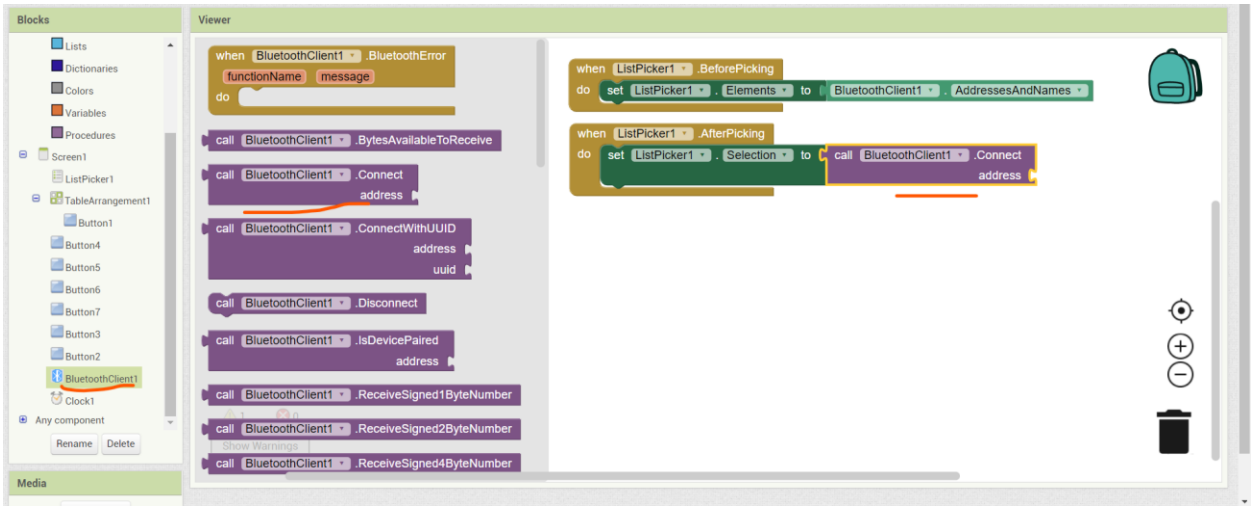
ListPicker1
TableArrangement1
Button1
Button4
Button5
Button6
Button7
Button3
Button2
BluetoothClient1
Clock1
Any component
Rename
Delete
Media
set ListPicker1 . ItemBackgroundColor to
ListPicker1 . ItemTextColor
set ListPicker1 . ItemTextColor to
ListPicker1 . Selection
set ListPicker1 . Selection to
ListPicker1 . SelectionIndex
set ListPicker1 . SelectionIndex to
ListPicker1 . ShowFeedback
set ListPicker1 . ShowFeedback to
ListPicker1 . ShowFilterBar
set ListPicker1 . ShowFilterBar to
ListPicker1 . Text
set ListPick
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames
when ListPicker1 .AfterPicking
do set ListPicker1 . Selection to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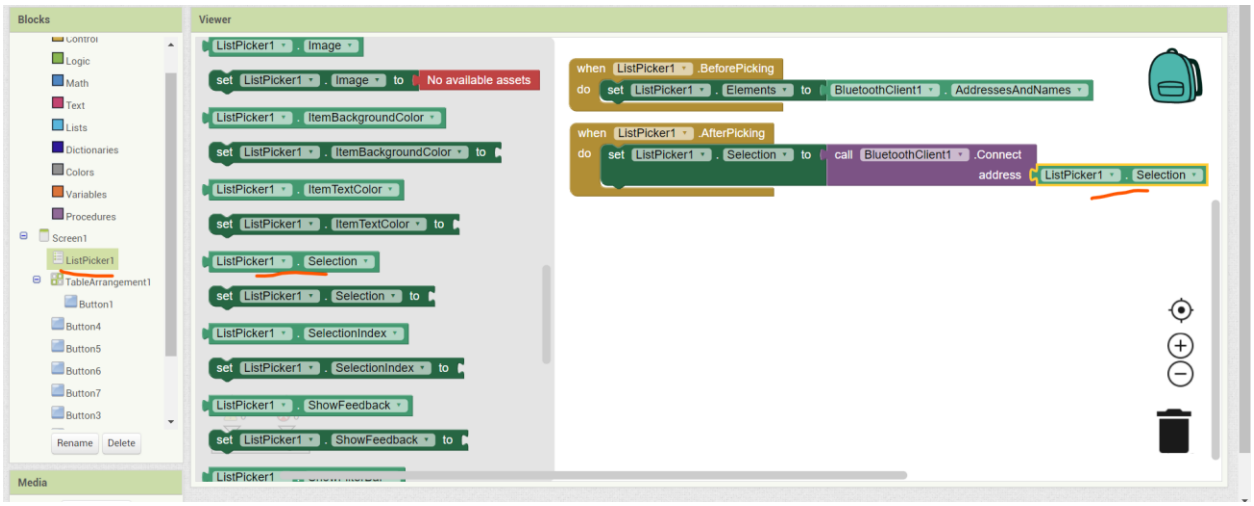
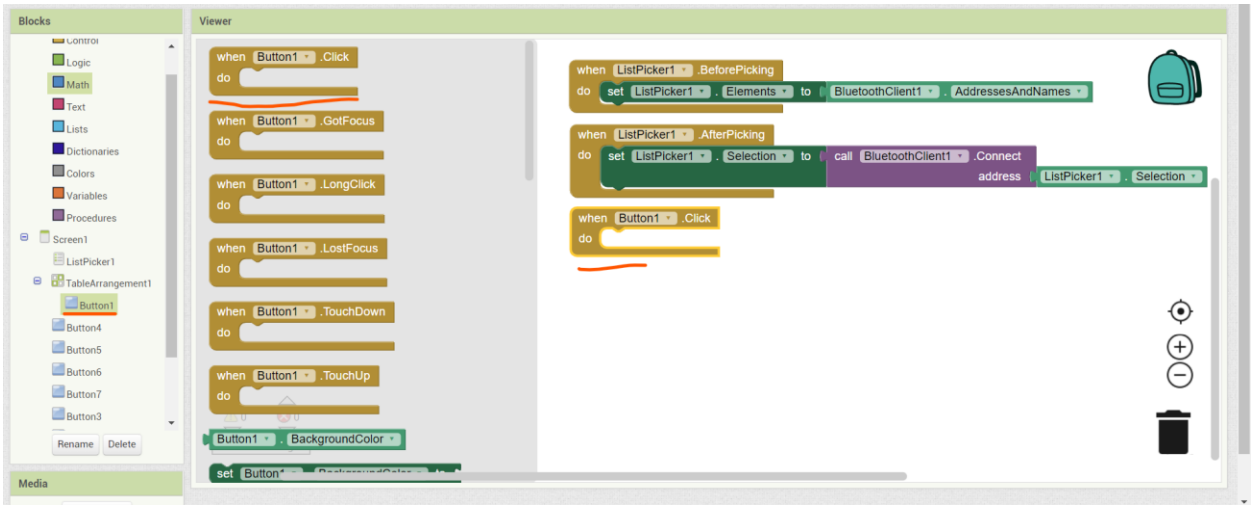
TableArrangement1
Button1
Button4
Button5
Button6
Button7
Button3
Button2
BluetoothClient1
Clock1
Any component
Rename
Delete
Media
when BluetoothClient1 .BluetoothError
functionName message
do
call BluetoothClient1 .BytesAvailableToReceive
call BluetoothClient1 .Connect
address
call BluetoothClient1 .ConnectWithUUID
address
uuid
call BluetoothClient1 .Disconnect
call BluetoothClient1 .IsDevicePaired
address
call BluetoothClient1 .ReceiveSigned1ByteNumber
call BluetoothClient1 .ReceiveSigned2ByteNumber
call BluetoothClient1 .ReceiveSigned4ByteNumber
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames
when ListPicker1 .AfterPicking
do set ListPicker1 . Selection to call BluetoothClient1 .Connect
address


Blocks
Viewer
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
ListPicker1
TableArrangement1
Button1
Button4
Button5
Button6
Button7
Button3
Rename
Delete
Media
ListPicker1 . Image
set ListPicker1 . Image to No available assets
ListPicker1 . ItemBackgroundColor
set ListPicker1 . ItemBackgroundColor to
ListPicker1 . ItemTextColor
set ListPicker1 . ItemTextColor to
ListPicker1 . Selection
set ListPicker1 . Selection to
ListPicker1 . SelectionIndex
set ListPicker1 . SelectionIndex to
ListPicker1 . ShowFeedback
set ListPicker1 . ShowFeedback to
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames
when ListPicker1 .AfterPicking
do set ListPicker1 . Selection to call BluetoothClient1 .Connect
address ListPicker1 . Selection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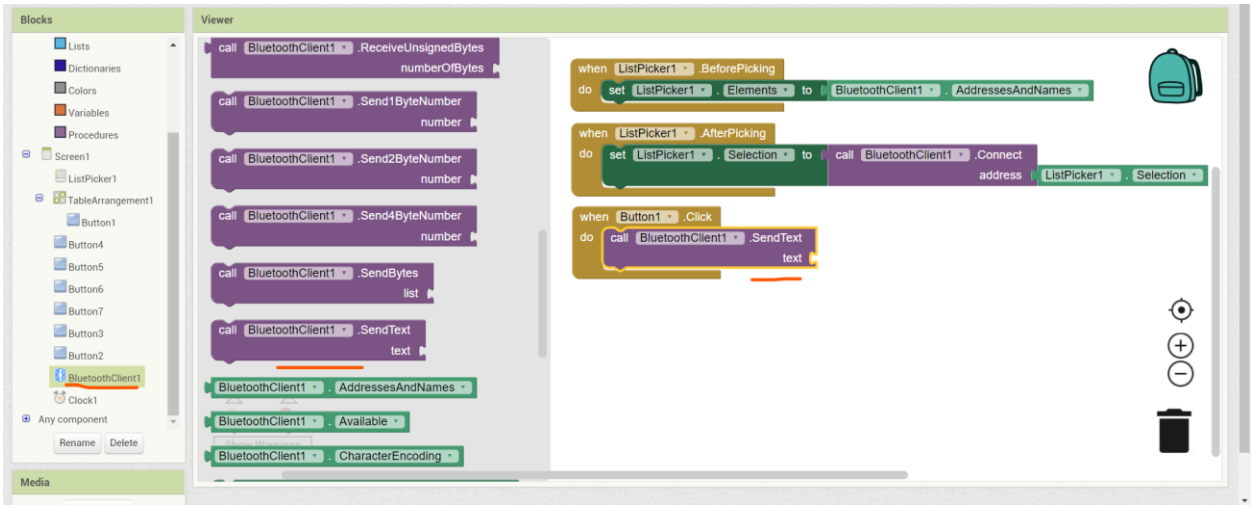
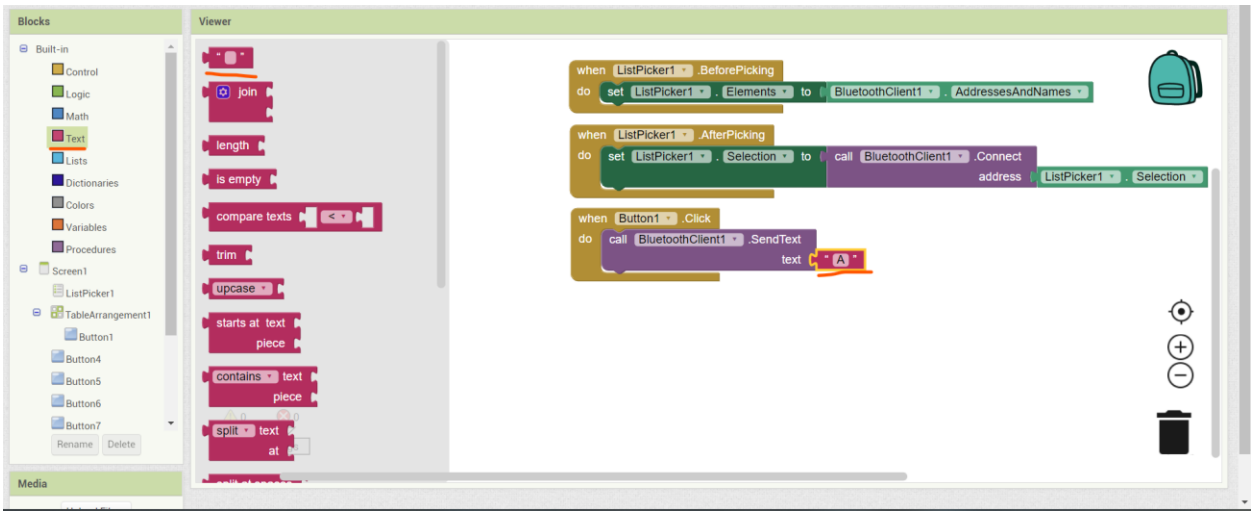
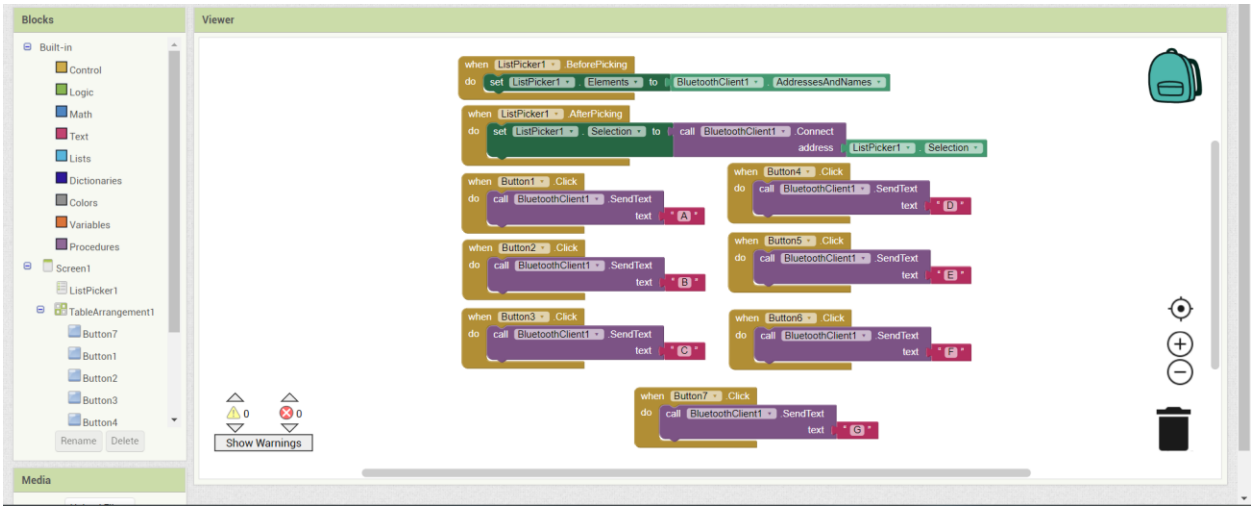
Screen1
ListPicker1
TableArrangement1
Button1
Button4
Button5
Button6
Button7
Button3
Rename
Delete
Media
when Button1 .Click
do
when Button1 .GotFocus
do
when Button1 .LongClick
do
when Button1 .LostFocus
do
when Button1 .TouchDown
do
when Button1 .TouchUp
do
Button1 . BackgroundColor
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames
when ListPicker1 .AfterPicking
do set ListPicker1 . Selection to call BluetoothClient1 .Connect
address ListPicker1 . Selection
when Button1 .Click
do

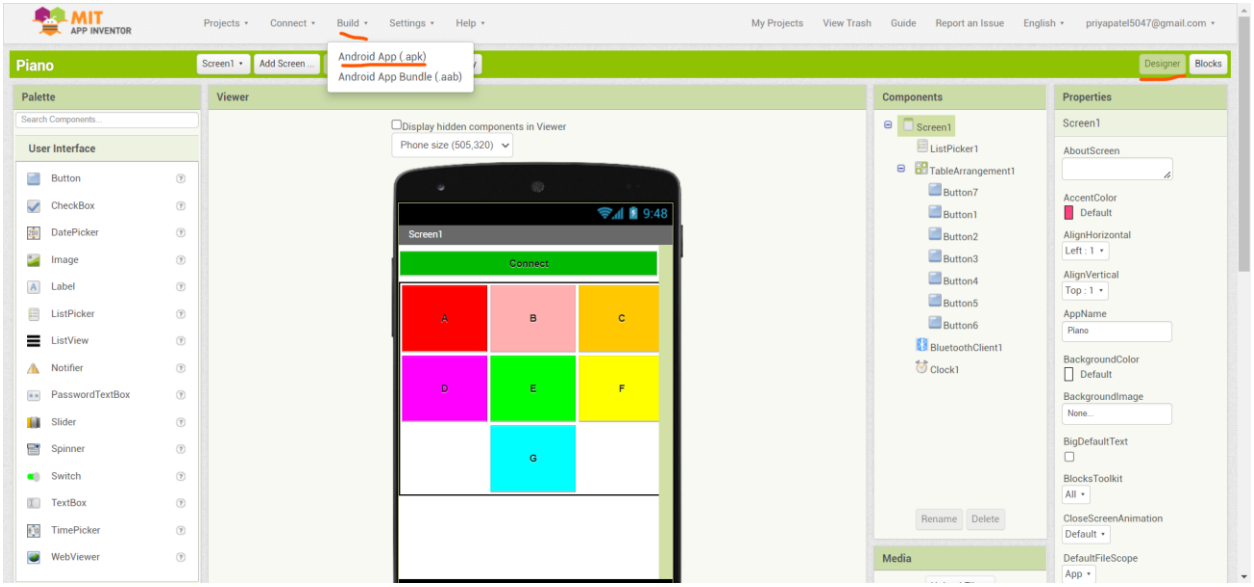




Do the above step for all the buttons and the final result should be as below.



15. After completing the above steps, click “Designer” on the top-right corner. From the dropdown menu of “Build” click on “Android app (apk)”.



16. After clicking, the app will start compiling, and after completion of compilation, you should see the option to download the app or download by scanning the QR code. Choose your preferred option.