**ANDROID APP DEVELOPMENT – WEEK 1 AND WEEK 2 ASSIGNMENTS**

**NAME : SANJANAA SRINIVASAN**

**REG NO : 20BCE1876**

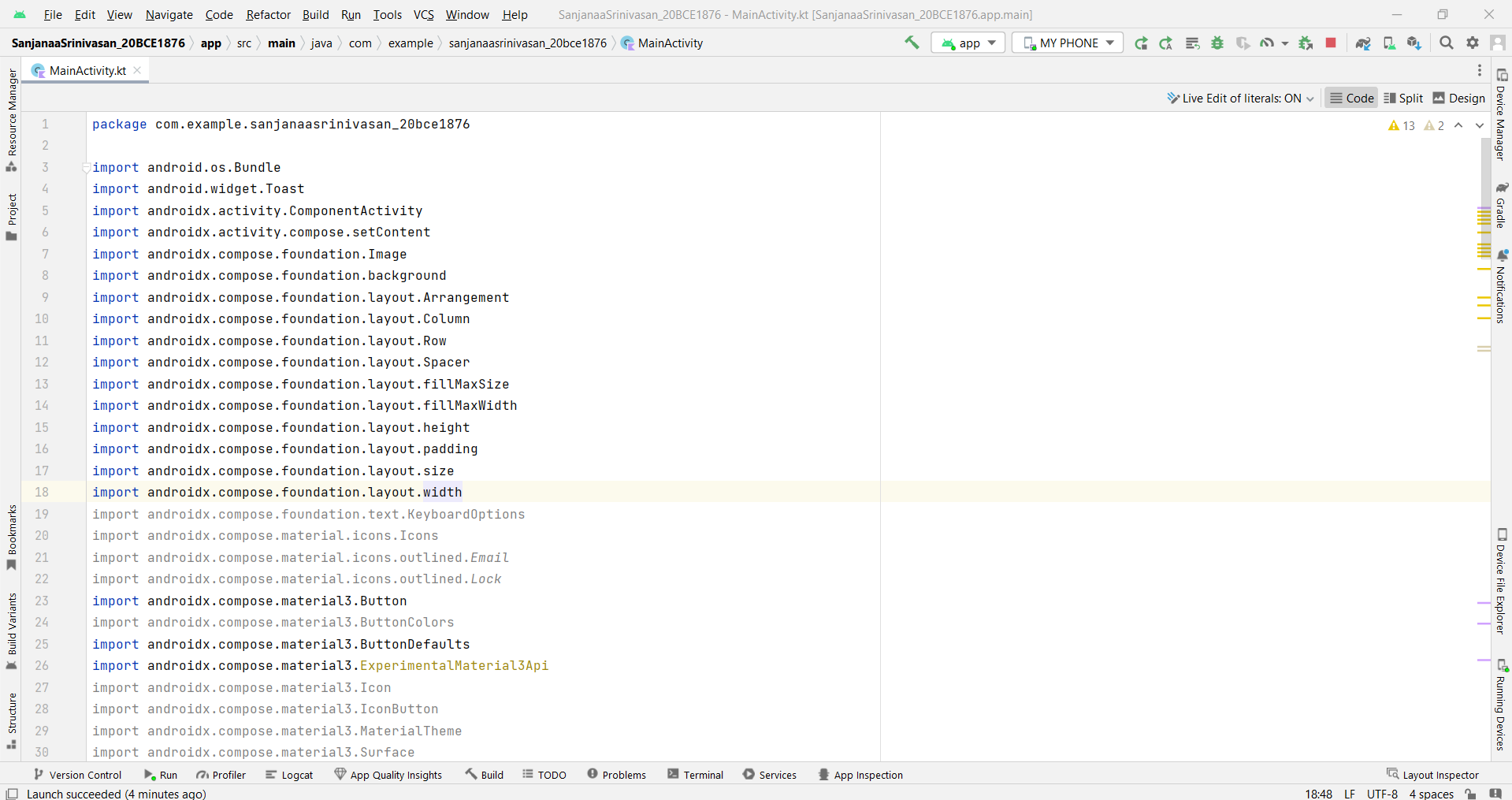
**COLLEGE : VIT CHENNAI**

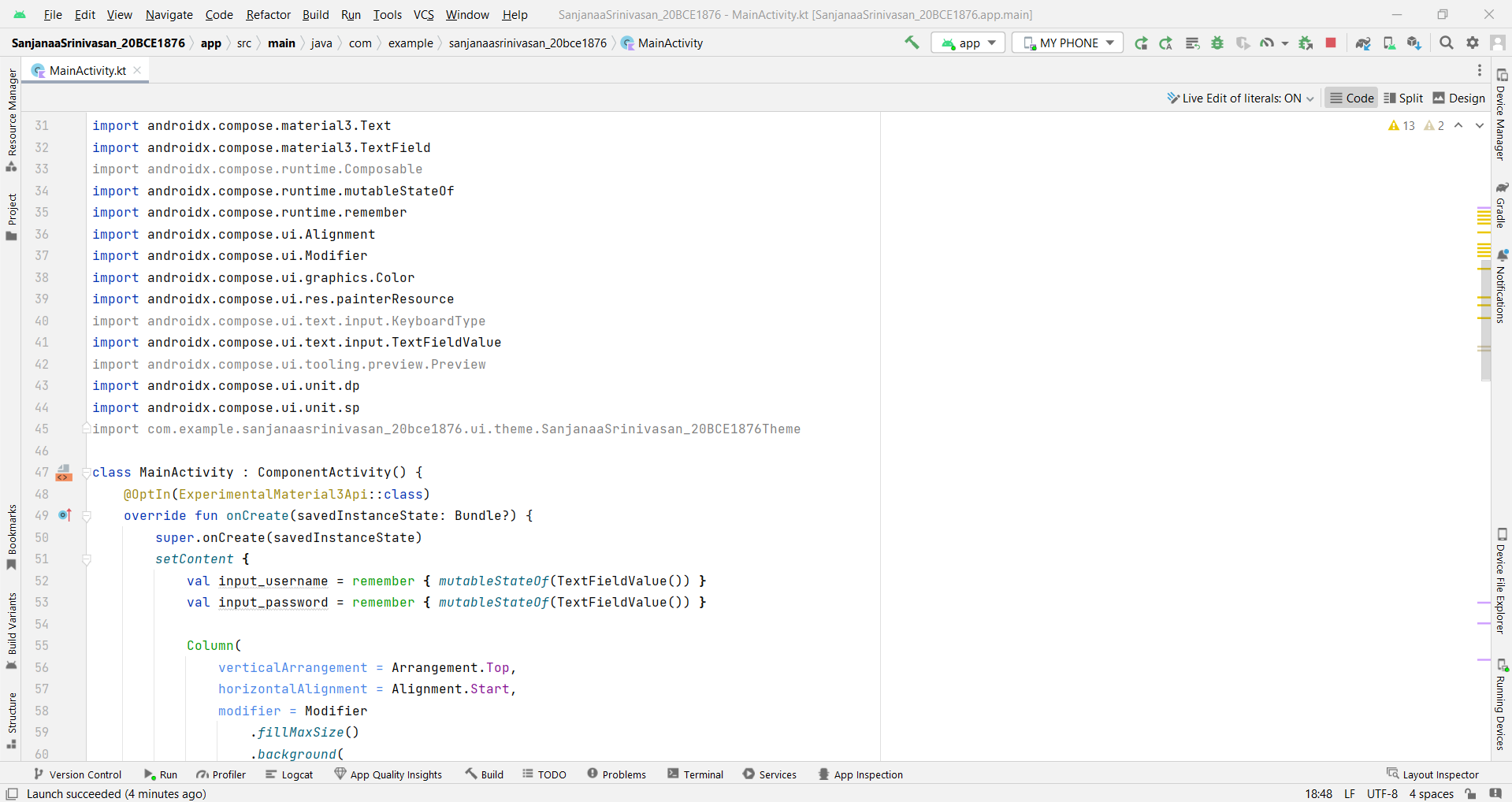
**GOOGLE DRIVE LINK OF OUTPUT VIDEO AND CODE SCREENSHOTS :**

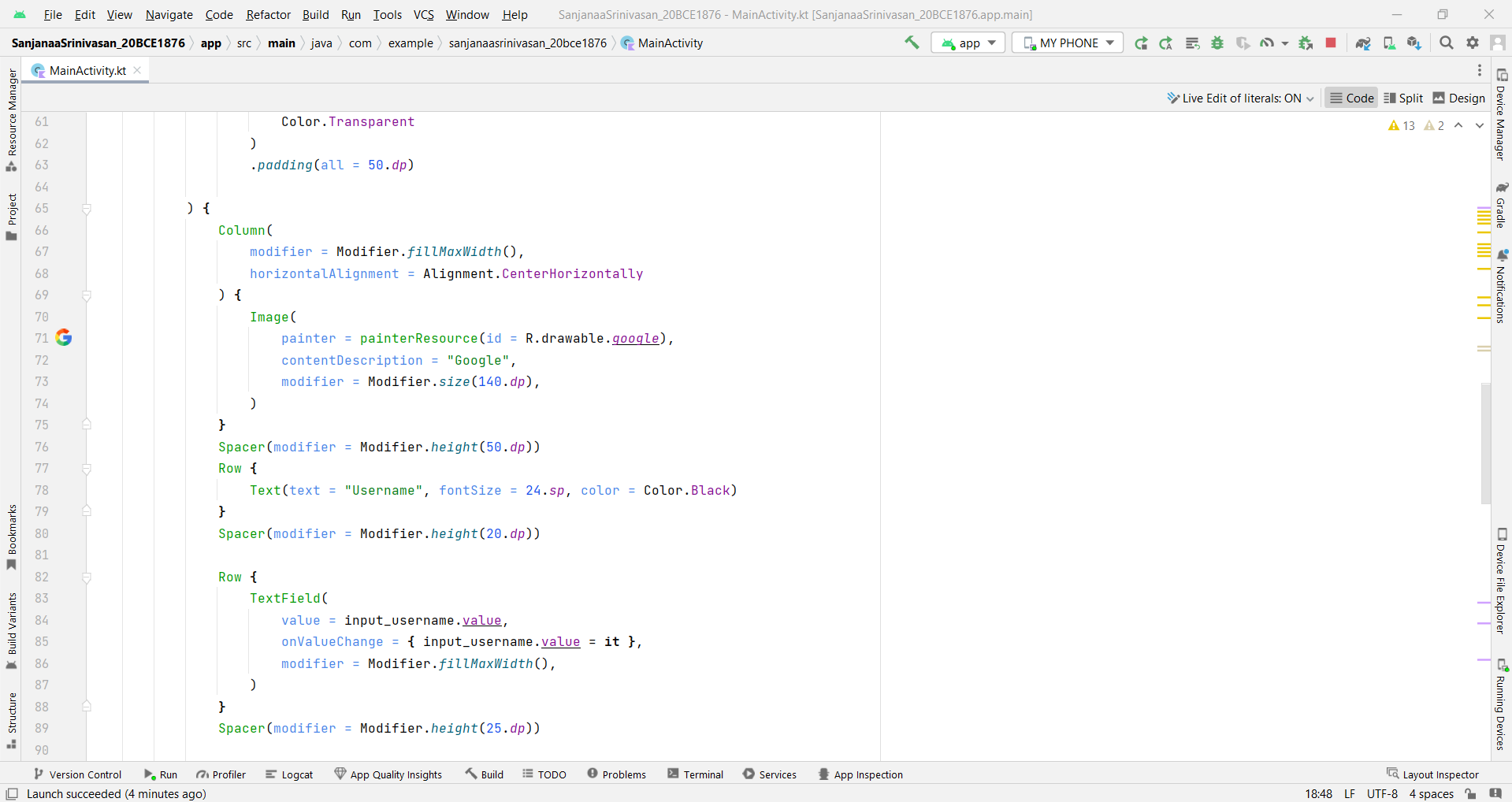
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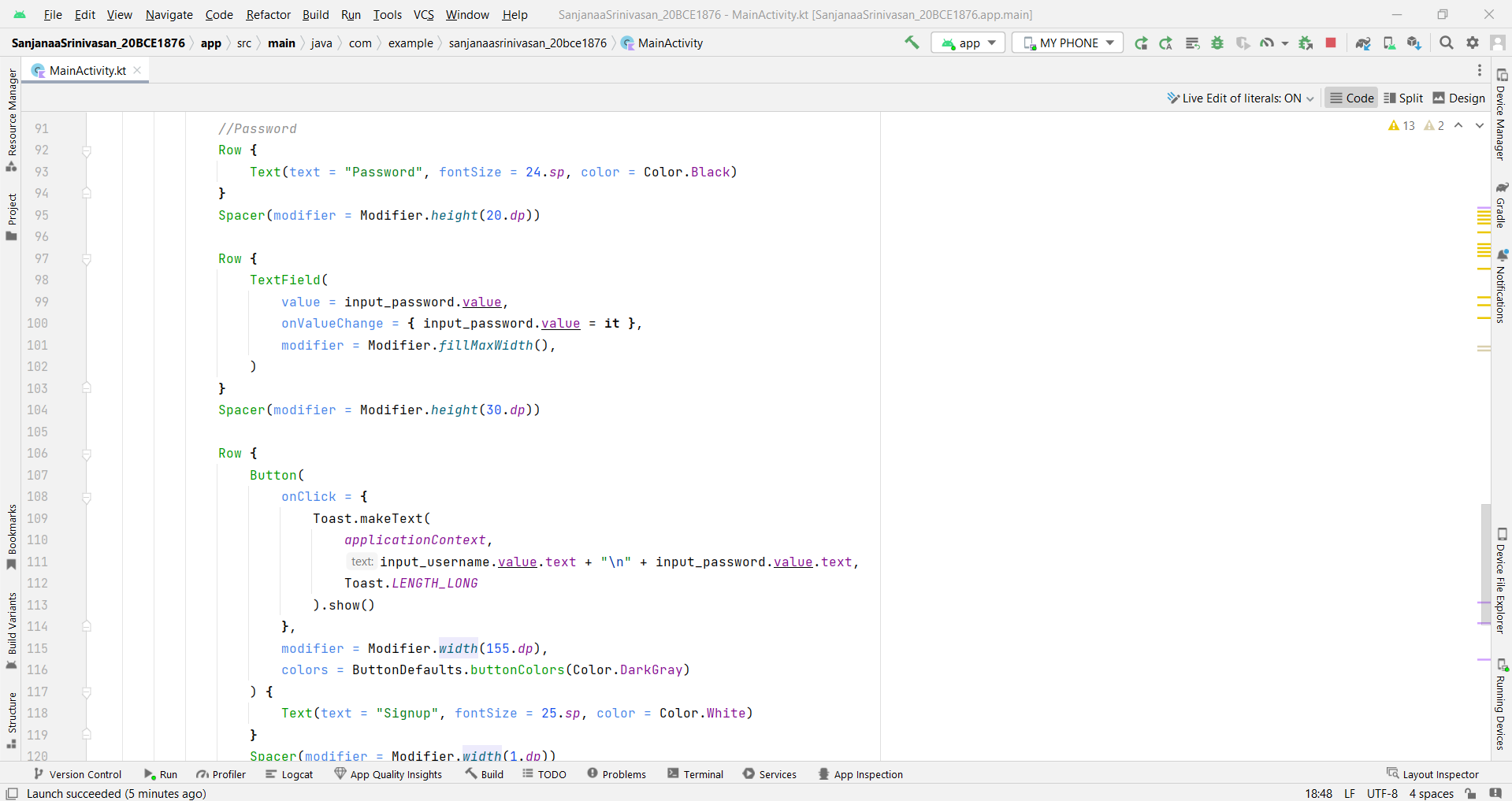
**WEEK 1 :**

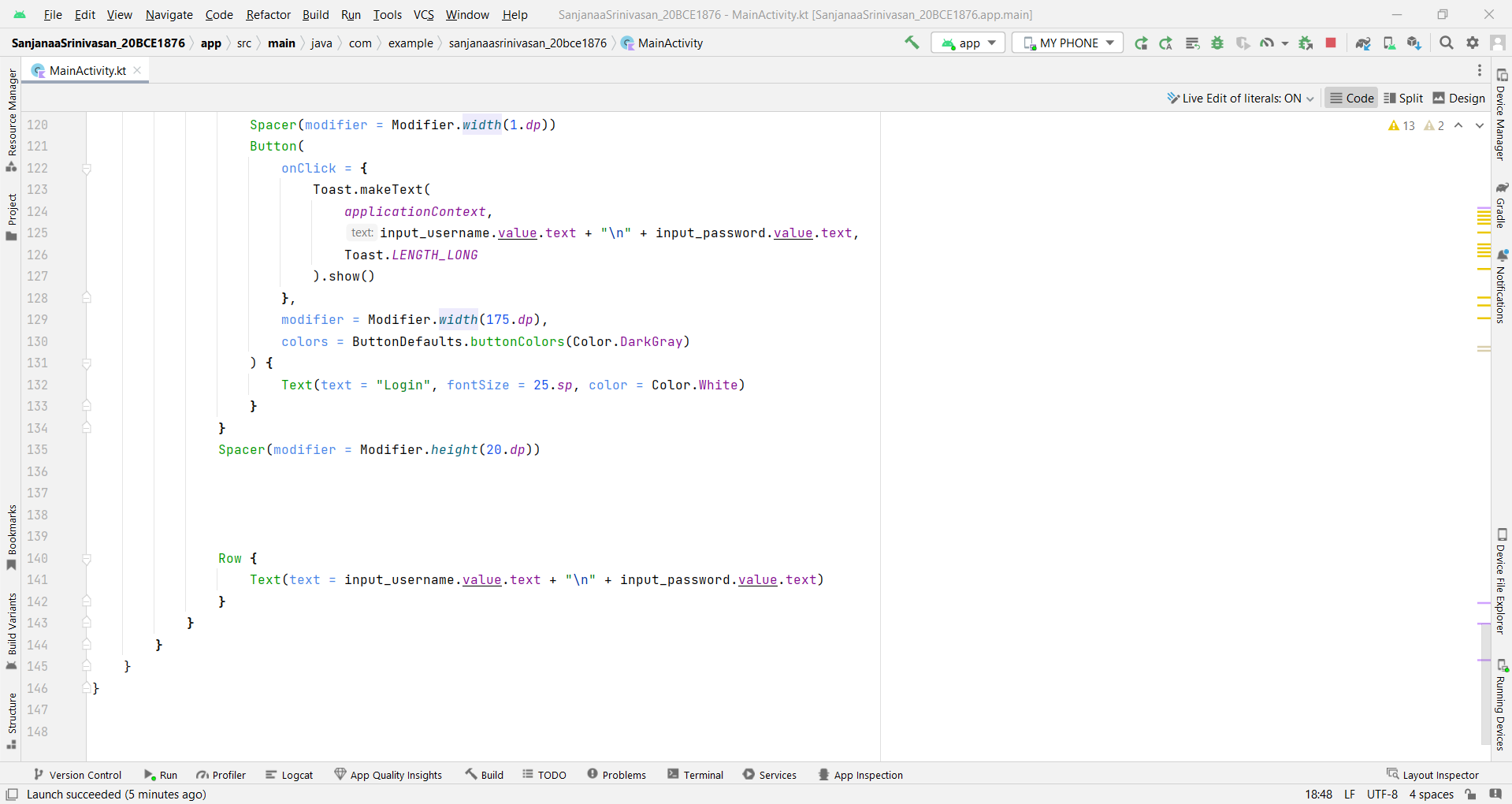
**Codes screenshots :**

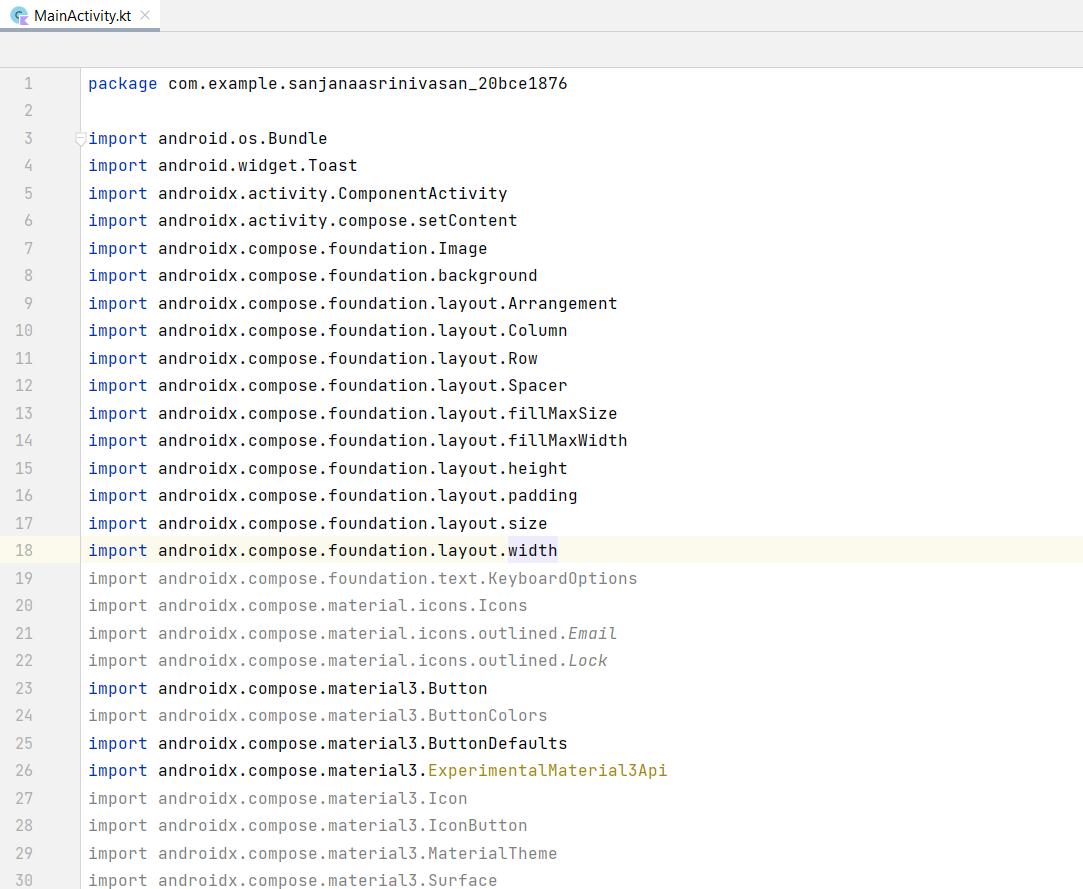
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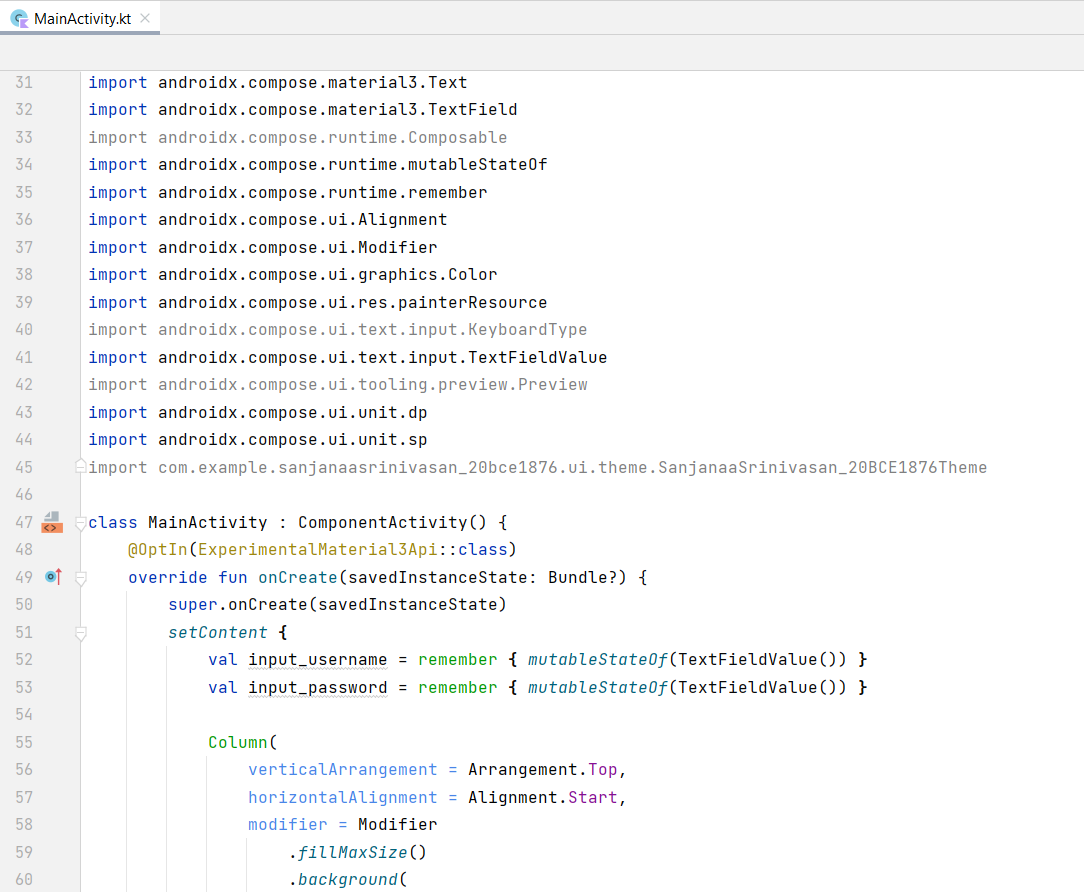
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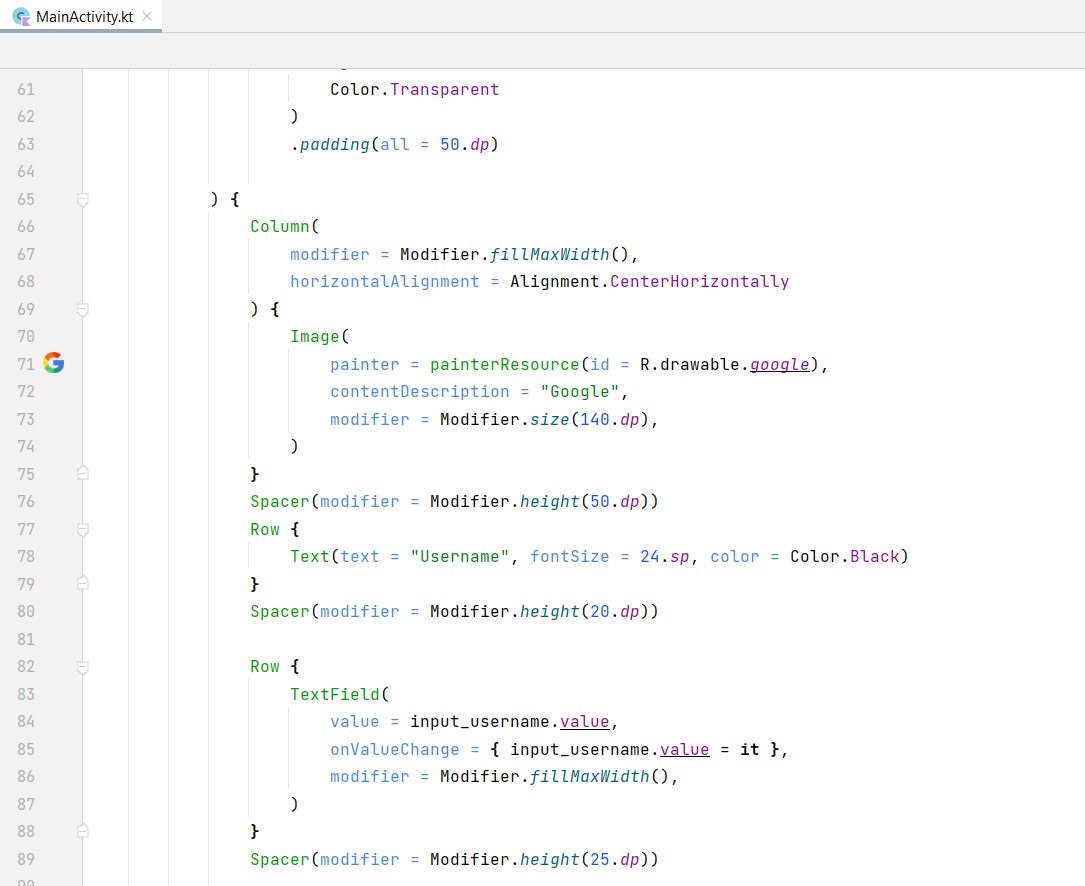
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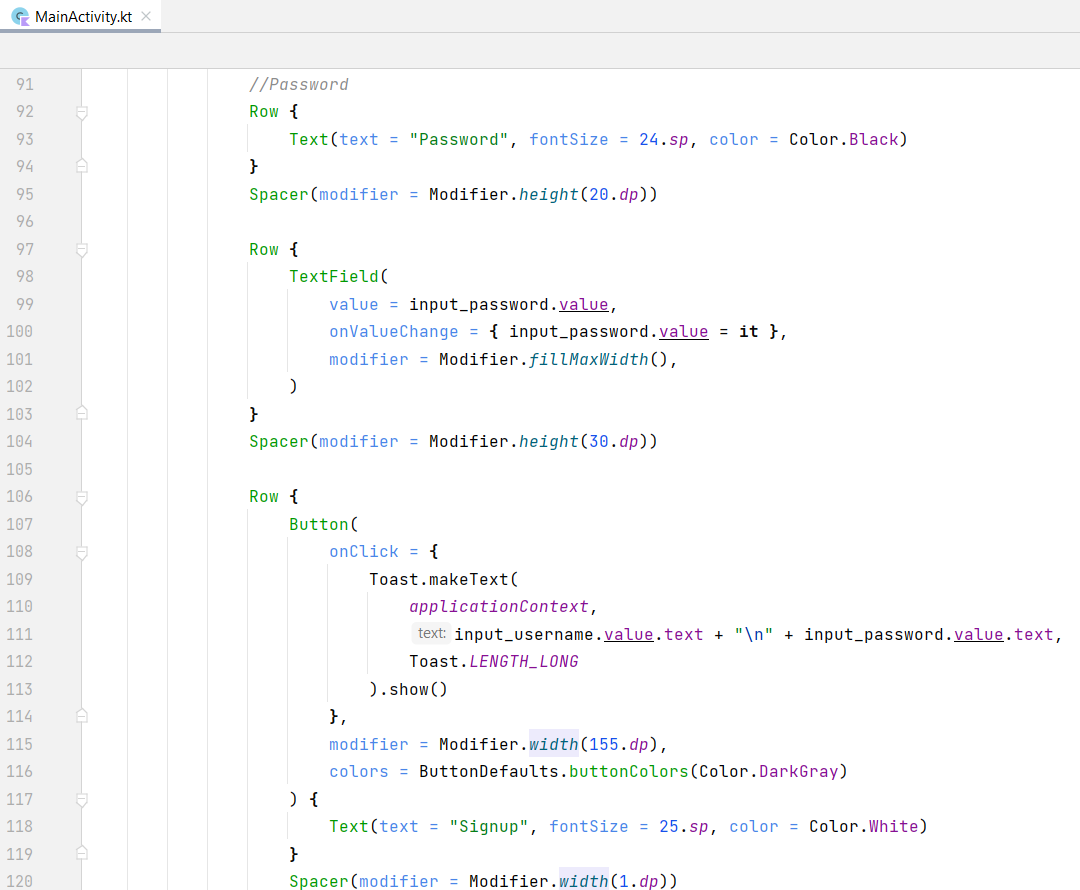
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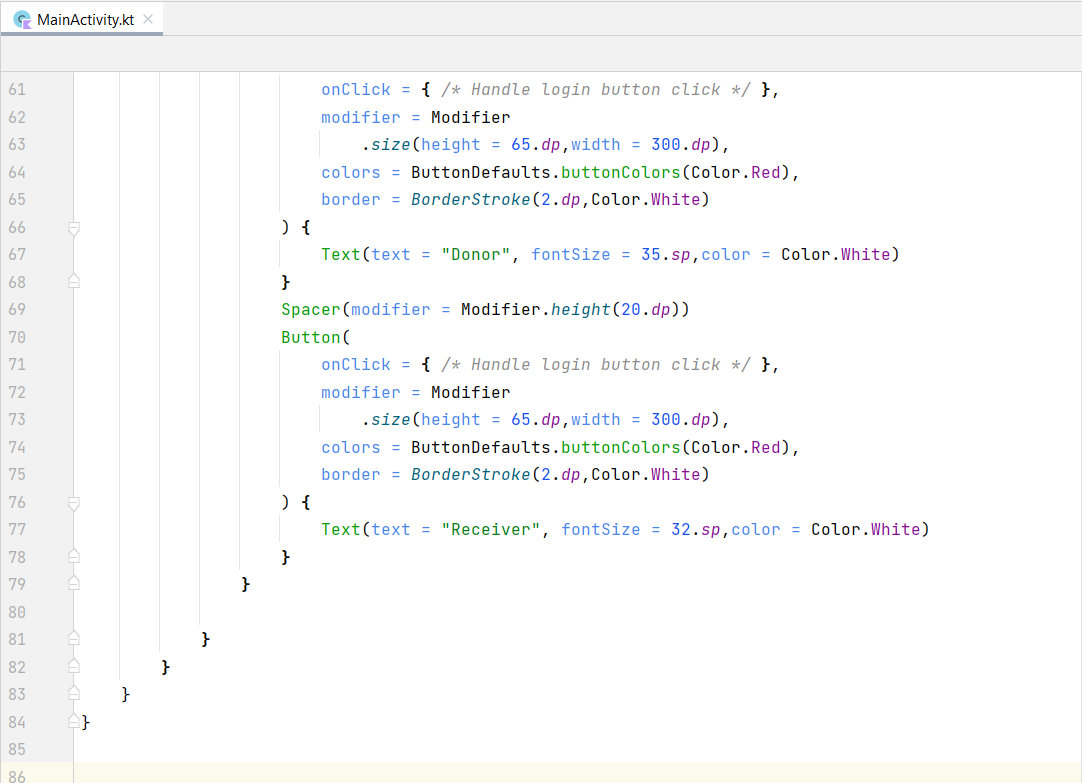
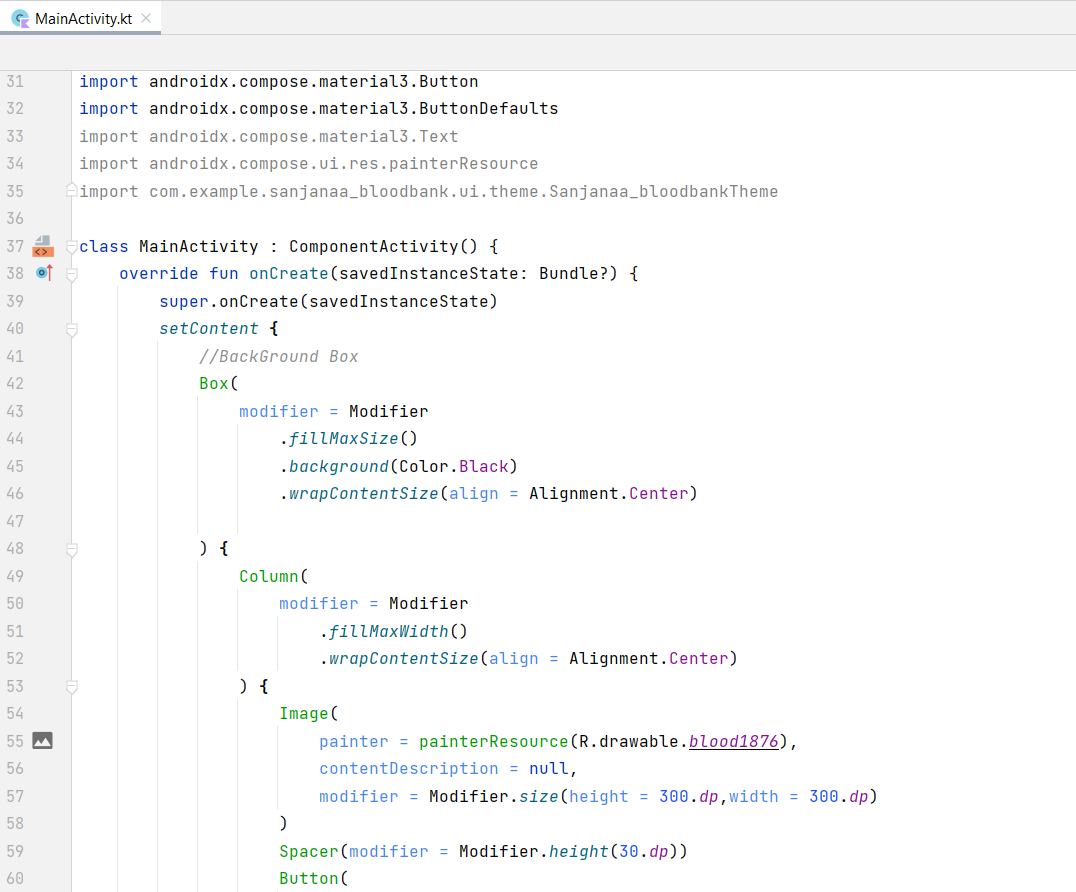
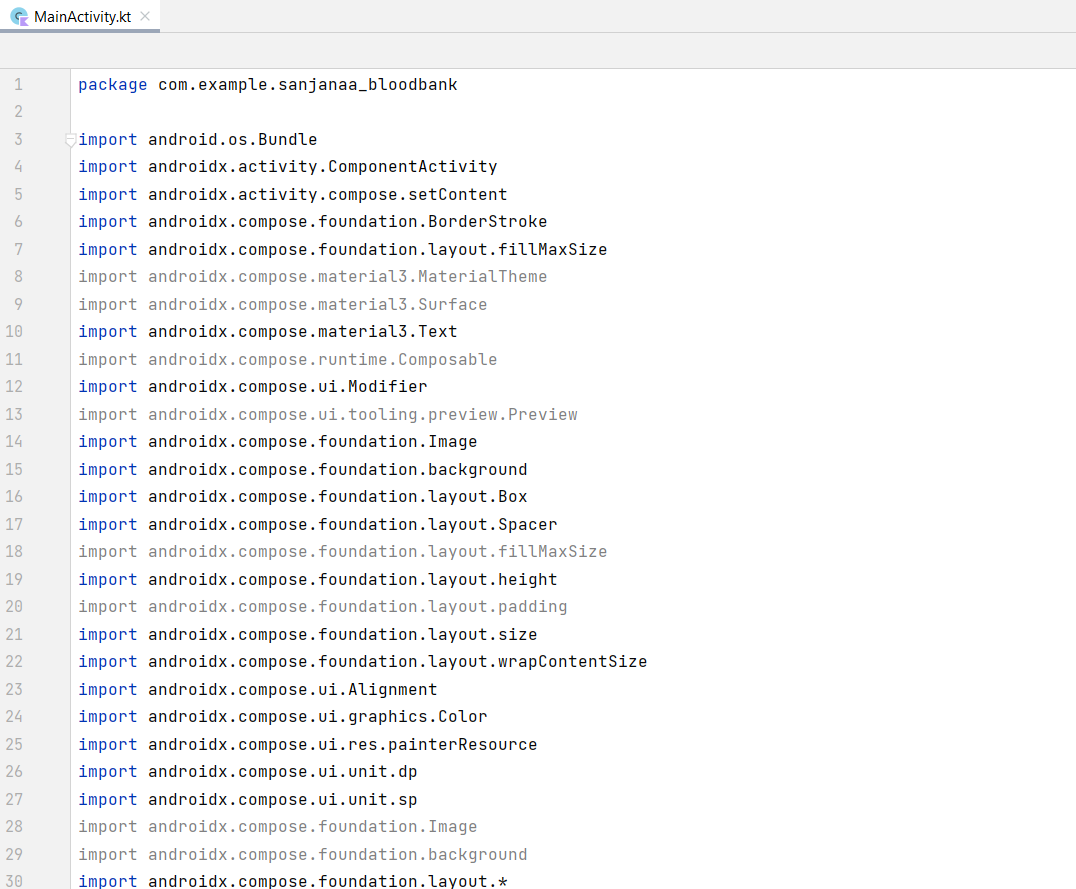
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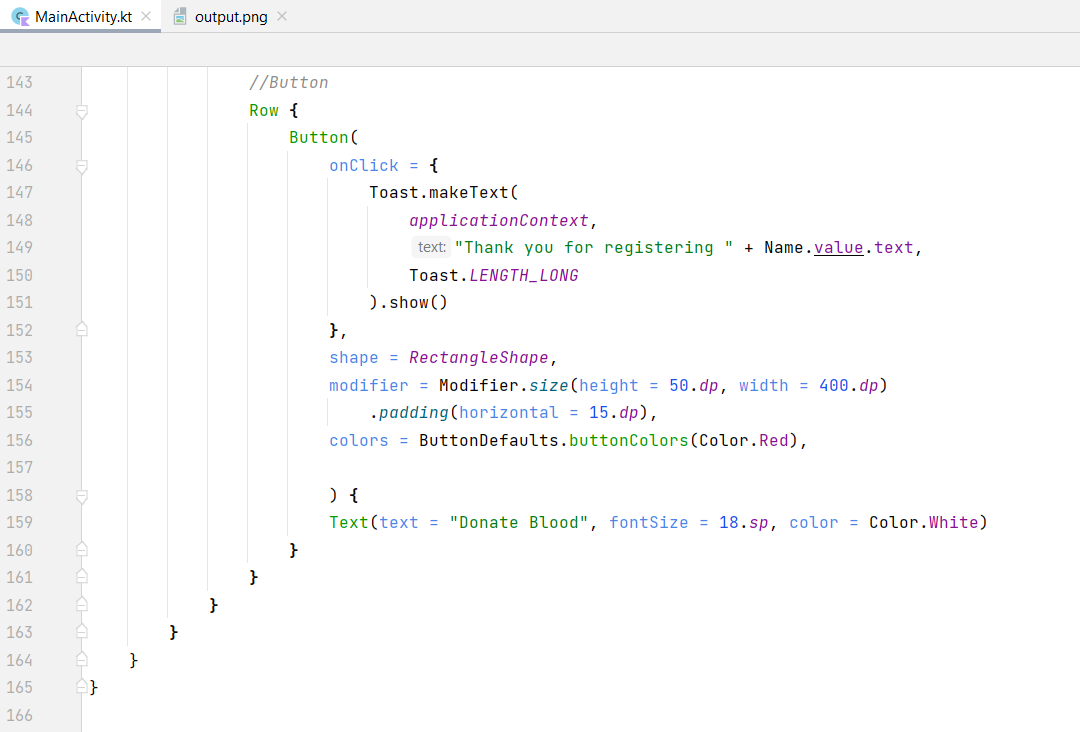
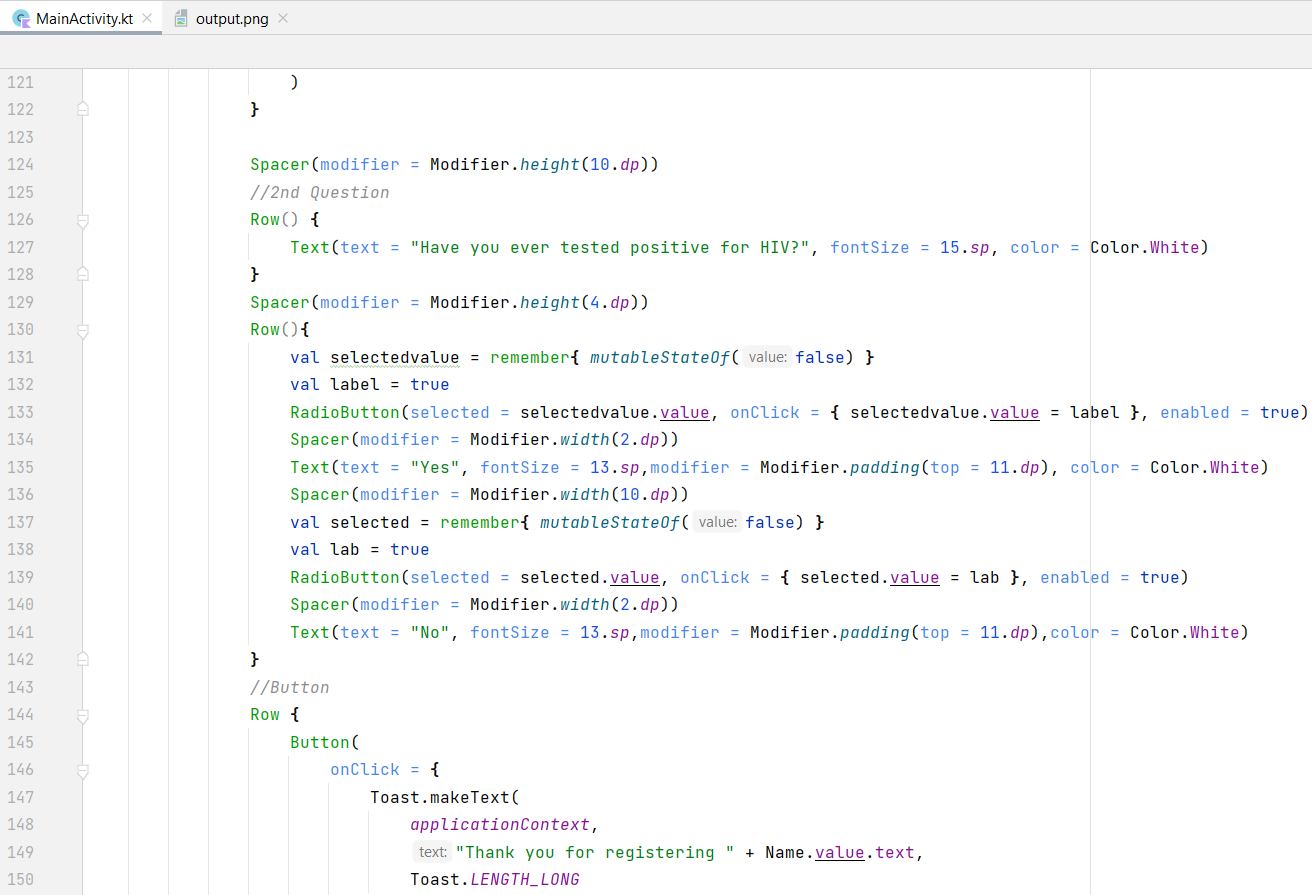
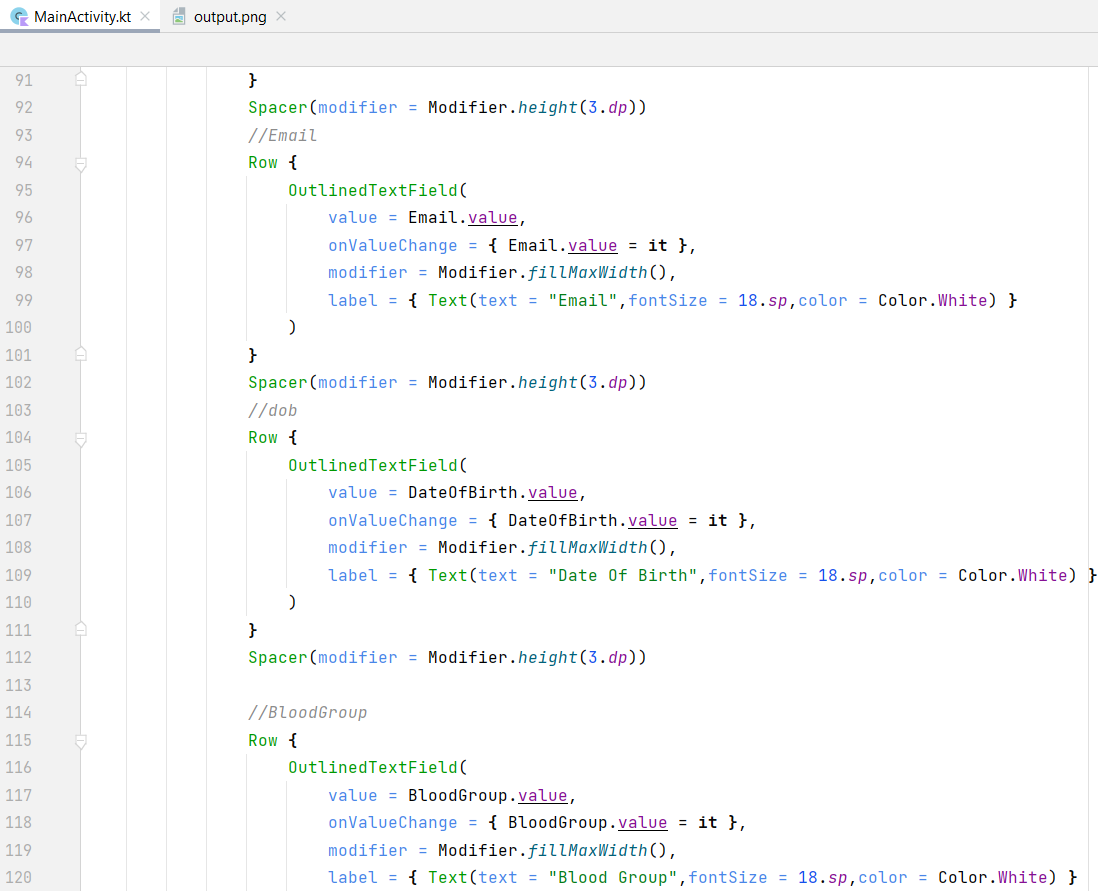
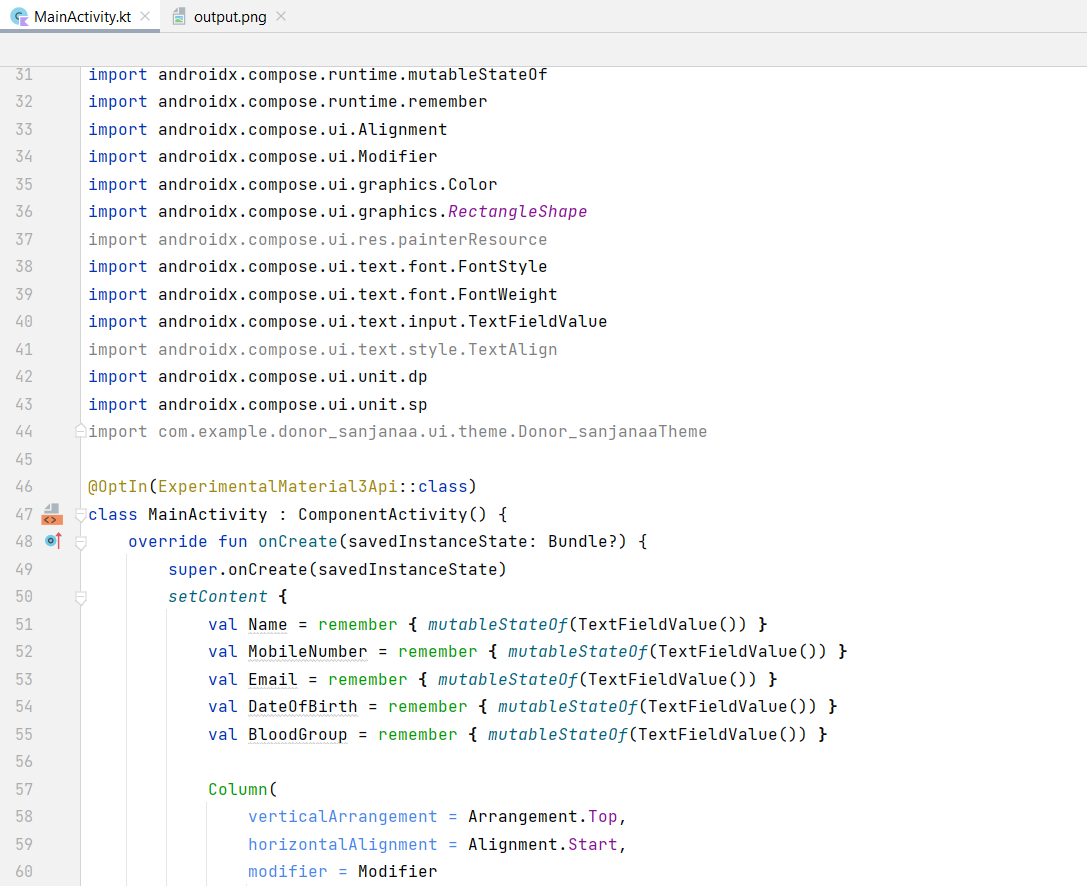
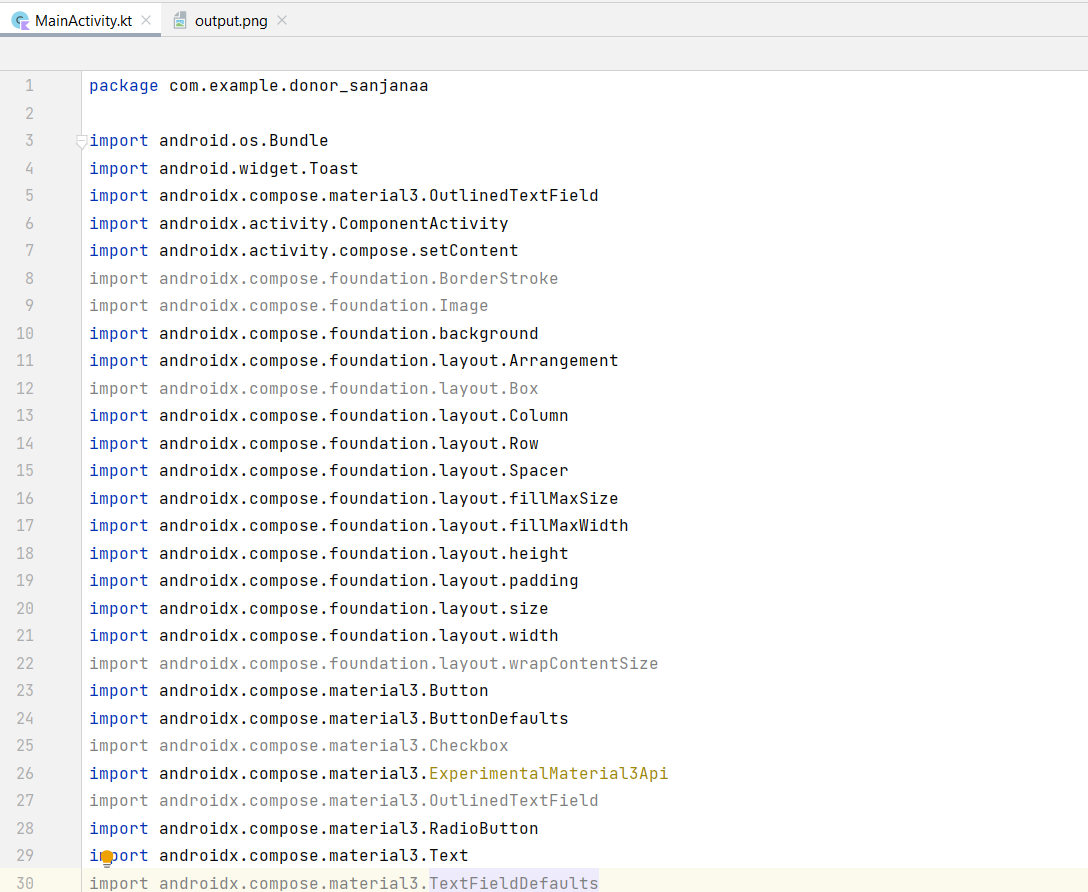
****

package com.example.sanjanaasrinivasan\_20bce1876  
  
import android.os.Bundle  
import android.widget.Toast  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Row  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.fillMaxWidth  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.size  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.text.KeyboardOptions  
import androidx.compose.material.icons.Icons  
import androidx.compose.material.icons.outlined.Email  
import androidx.compose.material.icons.outlined.Lock  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonColors  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.Icon  
import androidx.compose.material3.IconButton  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextField  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.input.KeyboardType  
import androidx.compose.ui.text.input.TextFieldValue  
import androidx.compose.ui.tooling.preview.Preview  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.sanjanaasrinivasan\_20bce1876.ui.theme.SanjanaaSrinivasan\_20BCE1876Theme  
  
class MainActivity : ComponentActivity() {  
 @OptIn(ExperimentalMaterial3Api::class)  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContent **{** val input\_username = remember **{** mutableStateOf(TextFieldValue()) **}** val input\_password = remember **{** mutableStateOf(TextFieldValue()) **}** Column(  
 verticalArrangement = Arrangement.Top,  
 horizontalAlignment = Alignment.Start,  
 modifier = Modifier  
 .fillMaxSize()  
 .background(  
 Color.Transparent  
 )  
 .padding(all = 50.dp)  
  
 ) **{** Column(  
 modifier = Modifier.fillMaxWidth(),  
 horizontalAlignment = Alignment.CenterHorizontally  
 ) **{** Image(  
 painter = painterResource(id = R.drawable.google),  
 contentDescription = "Google",  
 modifier = Modifier.size(140.dp),  
 )  
 **}** Spacer(modifier = Modifier.height(50.dp))  
 Row **{** Text(text = "Username", fontSize = 24.sp, color = Color.Black)  
 **}** Spacer(modifier = Modifier.height(20.dp))  
  
 Row **{** TextField(  
 value = input\_username.value,  
 onValueChange = **{** input\_username.value = it **}**,  
 modifier = Modifier.fillMaxWidth(),  
 )  
 **}** Spacer(modifier = Modifier.height(25.dp))  
  
 *//Password* Row **{** Text(text = "Password", fontSize = 24.sp, color = Color.Black)  
 **}** Spacer(modifier = Modifier.height(20.dp))  
  
 Row **{** TextField(  
 value = input\_password.value,  
 onValueChange = **{** input\_password.value = it **}**,  
 modifier = Modifier.fillMaxWidth(),  
 )  
 **}** Spacer(modifier = Modifier.height(30.dp))  
  
 Row **{** Button(  
 onClick = **{** Toast.makeText(  
 applicationContext,  
 input\_username.value.text + "\n" + input\_password.value.text,  
 Toast.LENGTH\_LONG  
 ).show()  
 **}**,  
 modifier = Modifier.width(155.dp),  
 colors = ButtonDefaults.buttonColors(Color.DarkGray)  
 ) **{** Text(text = "Signup", fontSize = 25.sp, color = Color.White)  
 **}** Spacer(modifier = Modifier.width(1.dp))  
 Button(  
 onClick = **{** Toast.makeText(  
 applicationContext,  
 input\_username.value.text + "\n" + input\_password.value.text,  
 Toast.LENGTH\_LONG  
 ).show()  
 **}**,  
 modifier = Modifier.width(175.dp),  
 colors = ButtonDefaults.buttonColors(Color.DarkGray)  
 ) **{** Text(text = "Login", fontSize = 25.sp, color = Color.White)  
 **}  
 }** Spacer(modifier = Modifier.height(20.dp))  
  
  
  
  
 Row **{** Text(text = input\_username.value.text + "\n" + input\_password.value.text)  
 **}  
 }  
 }** }  
}

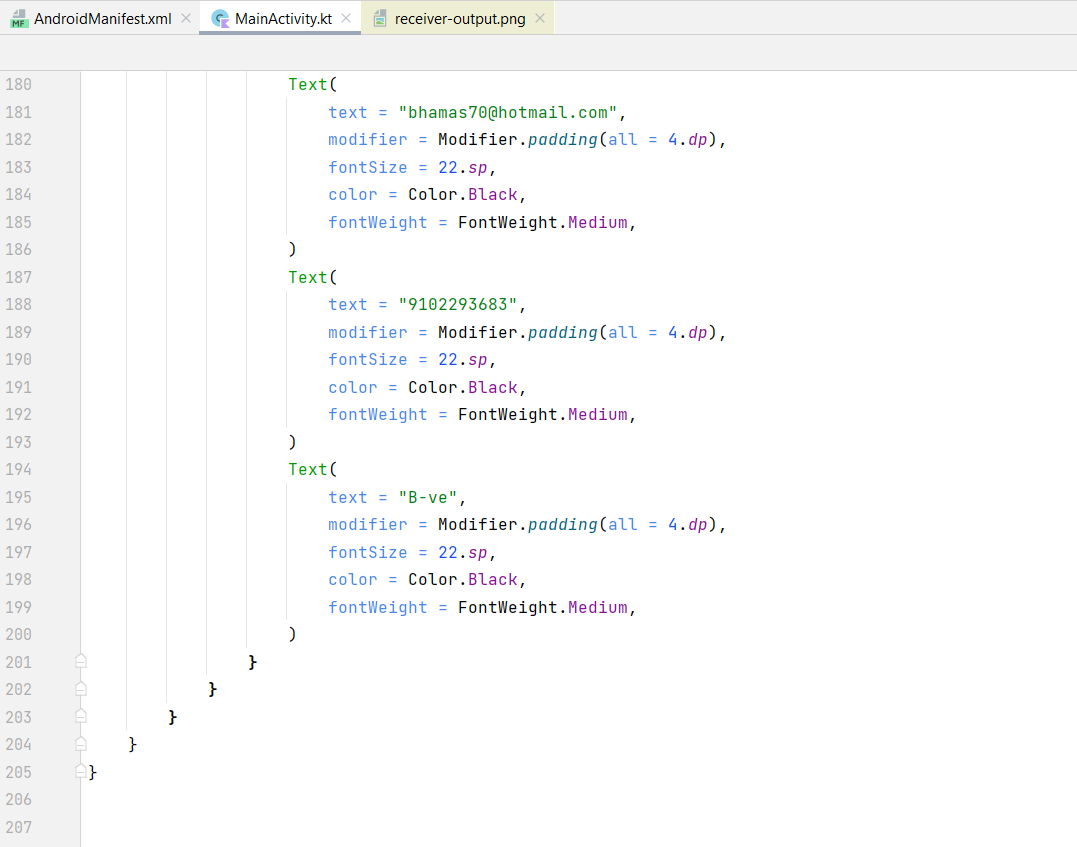
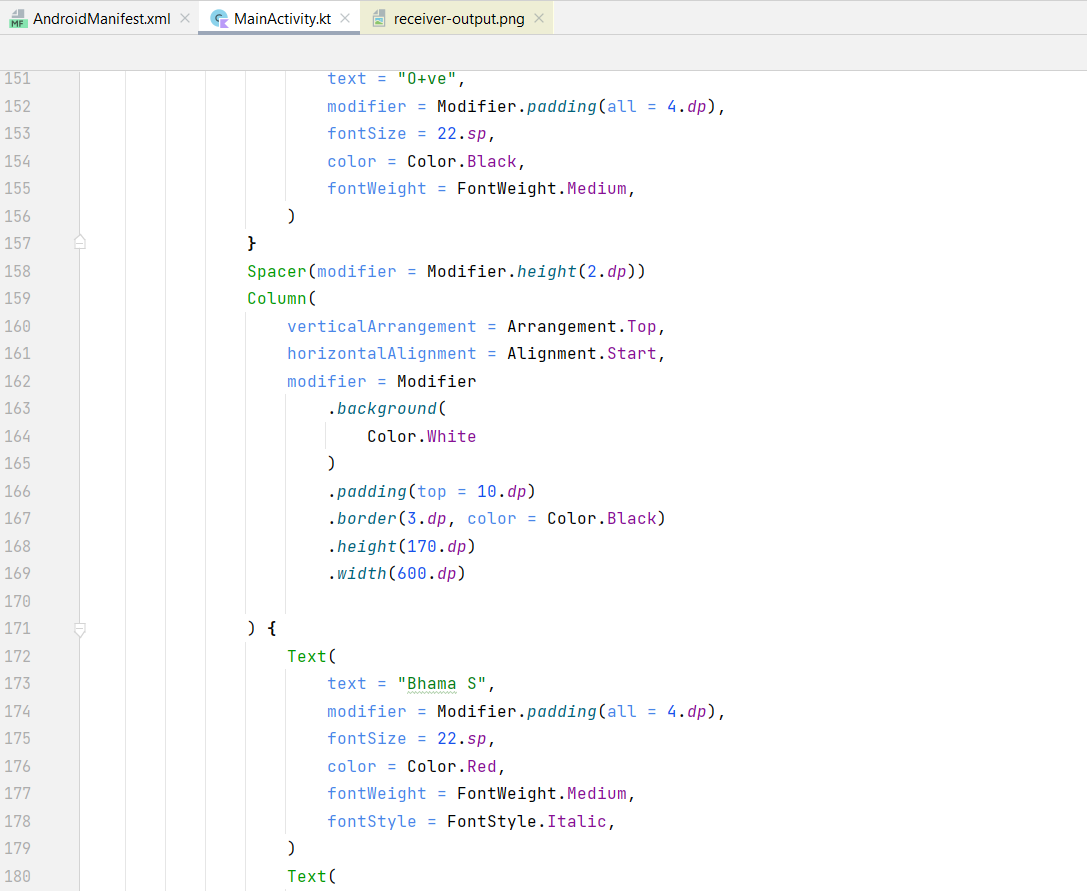
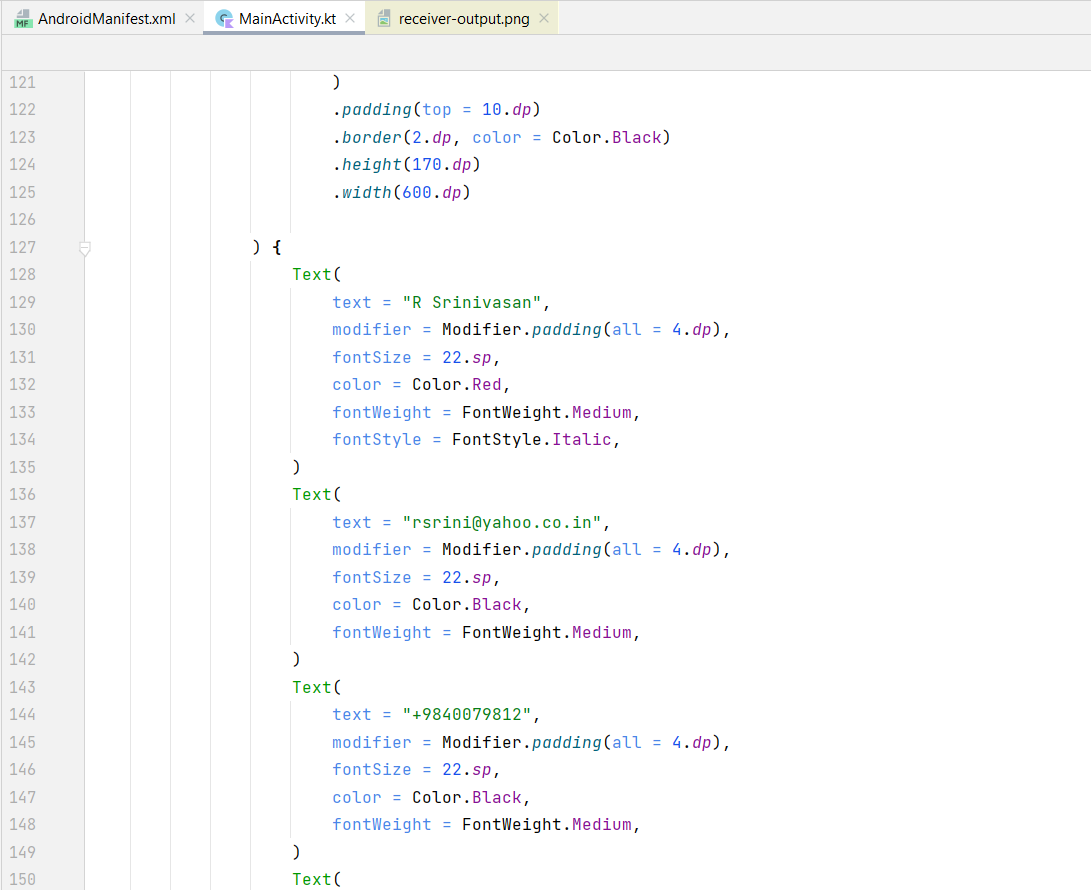
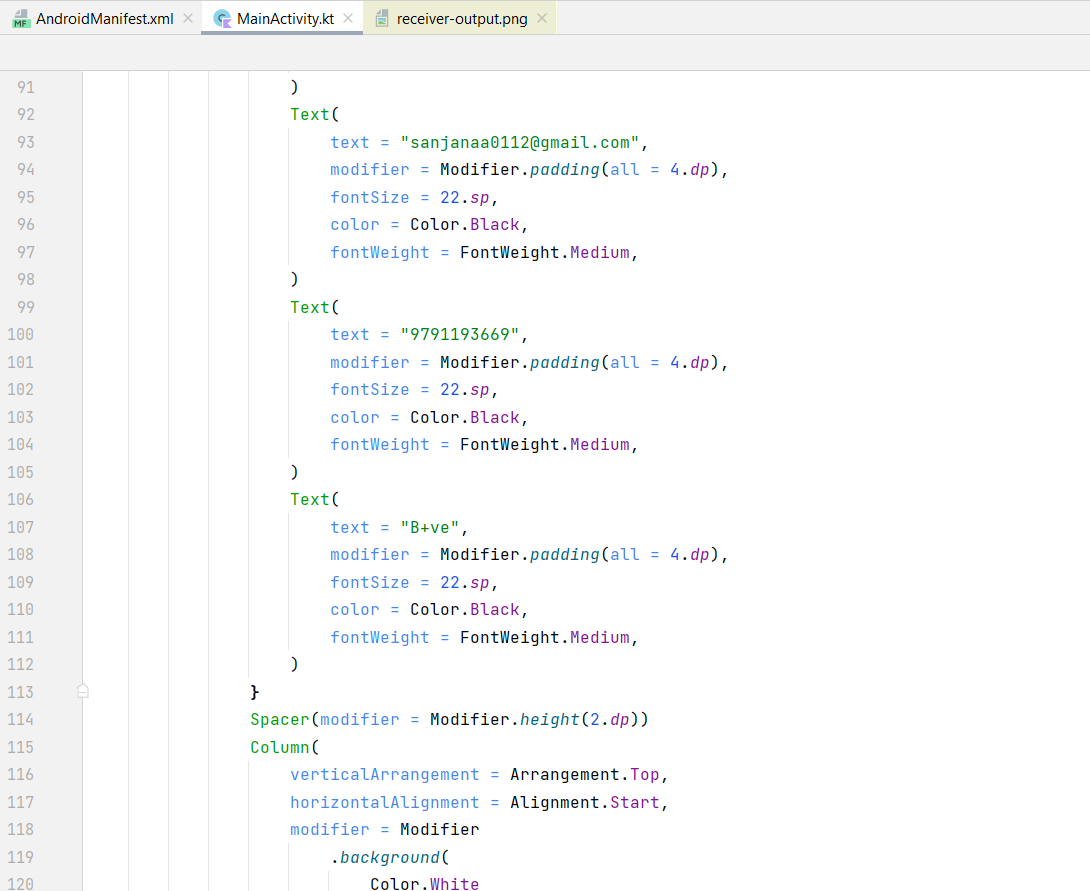
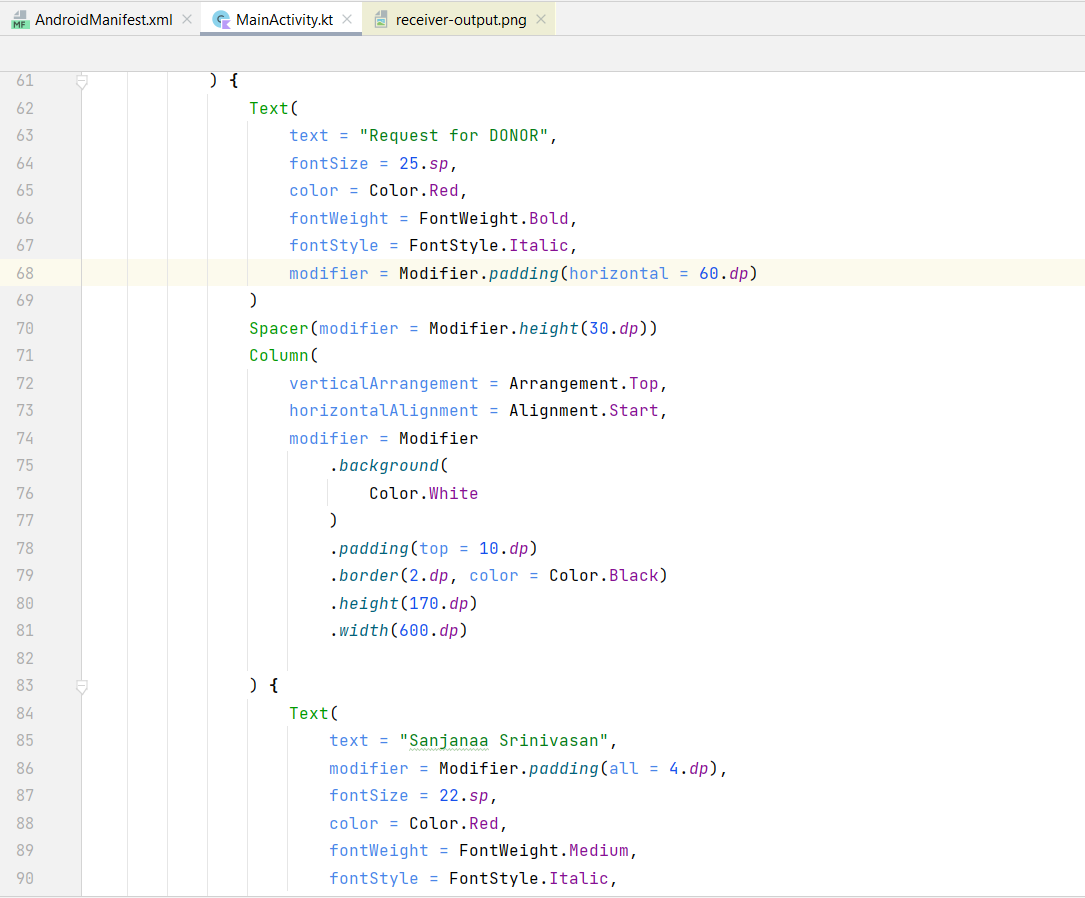
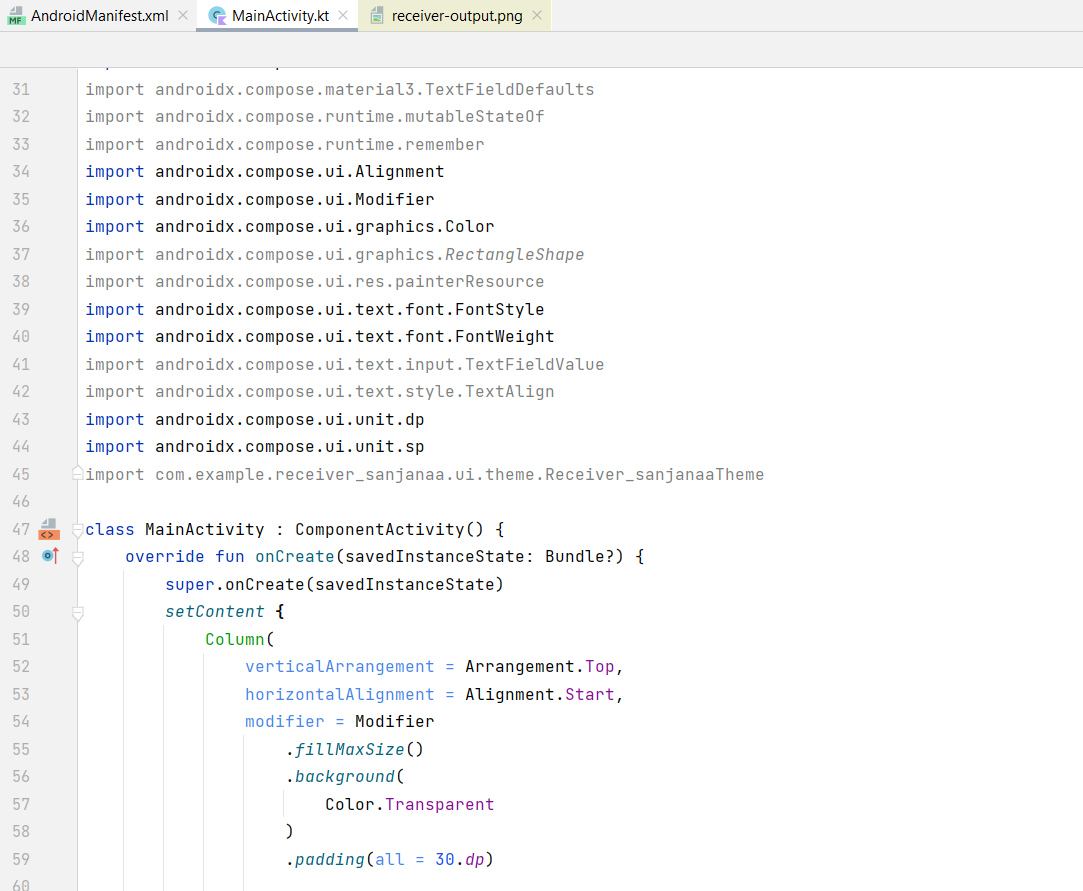
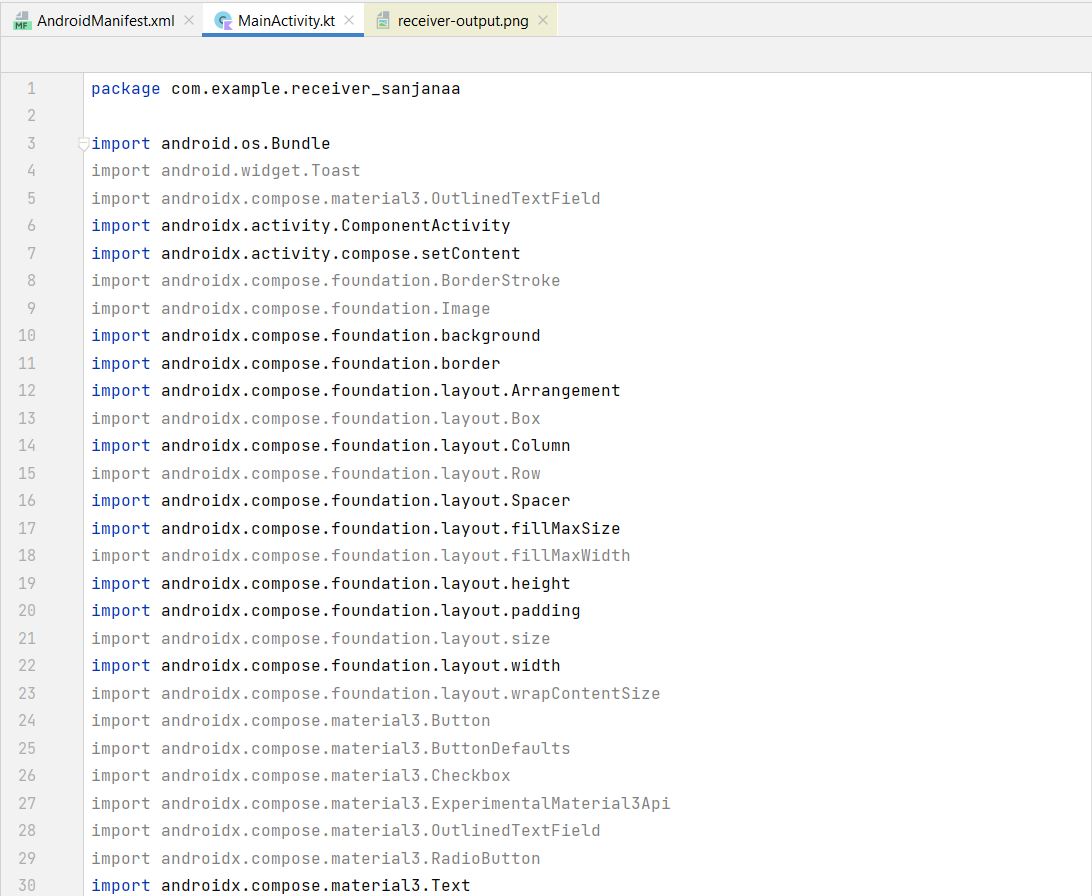
**WEEK 2 :**

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package com.example.sanjanaa\_bloodbank  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.BorderStroke  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.tooling.preview.Preview  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.layout.Box  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.size  
import androidx.compose.foundation.layout.wrapContentSize  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.layout.\*  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.Text  
import androidx.compose.ui.res.painterResource  
import com.example.sanjanaa\_bloodbank.ui.theme.Sanjanaa\_bloodbankTheme  
  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContent **{** *//BackGround Box* Box(  
 modifier = Modifier  
 .fillMaxSize()  
 .background(Color.Black)  
 .wrapContentSize(align = Alignment.Center)  
  
 ) **{** Column(  
 modifier = Modifier  
 .fillMaxWidth()  
 .wrapContentSize(align = Alignment.Center)  
 ) **{** Image(  
 painter = painterResource(R.drawable.blood1876),  
 contentDescription = null,  
 modifier = Modifier.size(height = 300.dp,width = 300.dp)  
 )  
 Spacer(modifier = Modifier.height(30.dp))  
 Button(  
 onClick = **{** */\* Handle login button click \*/* **}**,  
 modifier = Modifier  
 .size(height = 65.dp,width = 300.dp),  
 colors = ButtonDefaults.buttonColors(Color.Red),  
 border = BorderStroke(2.dp,Color.White)  
 ) **{** Text(text = "Donor", fontSize = 35.sp,color = Color.White)  
 **}** Spacer(modifier = Modifier.height(20.dp))  
 Button(  
 onClick = **{** */\* Handle login button click \*/* **}**,  
 modifier = Modifier  
 .size(height = 65.dp,width = 300.dp),  
 colors = ButtonDefaults.buttonColors(Color.Red),  
 border = BorderStroke(2.dp,Color.White)  
 ) **{** Text(text = "Receiver", fontSize = 32.sp,color = Color.White)  
 **}  
 }  
  
 }  
 }** }  
}

****

package com.example.donor\_sanjanaa  
  
import android.os.Bundle  
import android.widget.Toast  
import androidx.compose.material3.OutlinedTextField  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.BorderStroke  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Box  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Row  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.fillMaxWidth  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.size  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.layout.wrapContentSize  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.Checkbox  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.OutlinedTextField  
import androidx.compose.material3.RadioButton  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextFieldDefaults  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.graphics.*RectangleShape*import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.font.FontStyle  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.text.input.TextFieldValue  
import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.donor\_sanjanaa.ui.theme.Donor\_sanjanaaTheme  
  
@OptIn(ExperimentalMaterial3Api::class)  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** val Name = remember **{** *mutableStateOf*(TextFieldValue()) **}** val MobileNumber = remember **{** *mutableStateOf*(TextFieldValue()) **}** val Email = remember **{** *mutableStateOf*(TextFieldValue()) **}** val DateOfBirth = remember **{** *mutableStateOf*(TextFieldValue()) **}** val BloodGroup = remember **{** *mutableStateOf*(TextFieldValue()) **}** Column(  
 verticalArrangement = Arrangement.Top,  
 horizontalAlignment = Alignment.Start,  
 modifier = Modifier  
 .*fillMaxSize*()  
 .*background*(  
 Color.Black)  
 .*padding*(all = 20.*dp*)  
  
 )  
 **{** Spacer(modifier = Modifier.*height*(12.*dp*))  
 Text(text = "Become a DONOR!", fontSize = 25.*sp*,color = Color.Red,modifier = Modifier.*padding*(horizontal = 70.*dp*),  
 fontWeight = FontWeight.Bold, fontStyle = FontStyle.Italic)  
 Spacer(modifier = Modifier.*height*(12.*dp*))  
 *//FirstName* Row **{** OutlinedTextField(  
 value = Name.value,  
 onValueChange = **{** Name.value = **it }**,  
 modifier = Modifier.*fillMaxWidth*(),  
 label = **{** Text(text = "Full Name",fontSize = 18.*sp*,color = Color.White) **}** )  
 **}** Spacer(modifier = Modifier.*height*(3.*dp*))  
  
 *//MobileNumber* Row **{** OutlinedTextField(  
 value = MobileNumber.value,  
 onValueChange = **{** MobileNumber.value = **it }**,  
 modifier = Modifier.*fillMaxWidth*(),  
 label = **{** Text(text = "Phone Number",fontSize = 18.*sp*,color = Color.White) **}** )  
 **}** Spacer(modifier = Modifier.*height*(3.*dp*))  
 *//Email* Row **{** OutlinedTextField(  
 value = Email.value,  
 onValueChange = **{** Email.value = **it }**,  
 modifier = Modifier.*fillMaxWidth*(),  
 label = **{** Text(text = "Email",fontSize = 18.*sp*,color = Color.White) **}** )  
 **}** Spacer(modifier = Modifier.*height*(3.*dp*))  
 *//dob* Row **{** OutlinedTextField(  
 value = DateOfBirth.value,  
 onValueChange = **{** DateOfBirth.value = **it }**,  
 modifier = Modifier.*fillMaxWidth*(),  
 label = **{** Text(text = "Date Of Birth",fontSize = 18.*sp*,color = Color.White) **}** )  
 **}** Spacer(modifier = Modifier.*height*(3.*dp*))  
  
 *//BloodGroup* Row **{** OutlinedTextField(  
 value = BloodGroup.value,  
 onValueChange = **{** BloodGroup.value = **it }**,  
 modifier = Modifier.*fillMaxWidth*(),  
 label = **{** Text(text = "Blood Group",fontSize = 18.*sp*,color = Color.White) **}** )  
 **}** Spacer(modifier = Modifier.*height*(10.*dp*))  
 *//2nd Question* Row() **{** Text(text = "Have you ever tested positive for HIV?", fontSize = 15.*sp*, color = Color.White)  
 **}** Spacer(modifier = Modifier.*height*(4.*dp*))  
 Row()**{** val selectedvalue = remember**{** *mutableStateOf*(false) **}** val label = true  
 RadioButton(selected = selectedvalue.value, onClick = **{** selectedvalue.value = label **}**, enabled = true)  
 Spacer(modifier = Modifier.*width*(2.*dp*))  
 Text(text = "Yes", fontSize = 13.*sp*,modifier = Modifier.*padding*(top = 11.*dp*), color = Color.White)  
 Spacer(modifier = Modifier.*width*(10.*dp*))  
 val selected = remember**{** *mutableStateOf*(false) **}** val lab = true  
 RadioButton(selected = selected.value, onClick = **{** selected.value = lab **}**, enabled = true)  
 Spacer(modifier = Modifier.*width*(2.*dp*))  
 Text(text = "No", fontSize = 13.*sp*,modifier = Modifier.*padding*(top = 11.*dp*),color = Color.White)  
 **}** *//Button* Row **{** Button(  
 onClick = **{** Toast.makeText(  
 *applicationContext*,  
 "Thank you for registering " + Name.value.text,  
 Toast.*LENGTH\_LONG* ).show()  
 **}**,  
 shape = *RectangleShape*,  
 modifier = Modifier.*size*(height = 50.*dp*, width = 400.*dp*)  
 .*padding*(horizontal = 15.*dp*),  
 colors = ButtonDefaults.buttonColors(Color.Red),  
  
 ) **{** Text(text = "Donate Blood", fontSize = 18.*sp*, color = Color.White)  
 **}  
 }  
 }  
 }** }  
}

****

package com.example.receiver\_sanjanaa  
  
import android.os.Bundle  
import android.widget.Toast  
import androidx.compose.material3.OutlinedTextField  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.BorderStroke  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.border  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Box  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Row  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.fillMaxWidth  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.size  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.layout.wrapContentSize  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.Checkbox  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.OutlinedTextField  
import androidx.compose.material3.RadioButton  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextFieldDefaults  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.graphics.*RectangleShape*import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.font.FontStyle  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.text.input.TextFieldValue  
import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.receiver\_sanjanaa.ui.theme.Receiver\_sanjanaaTheme  
  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** Column(  
 verticalArrangement = Arrangement.Top,  
 horizontalAlignment = Alignment.Start,  
 modifier = Modifier  
 .*fillMaxSize*()  
 .*background*(  
 Color.Transparent  
 )  
 .*padding*(all = 30.*dp*)  
  
 ) **{** Text(  
 text = "Request for DONOR",  
 fontSize = 25.*sp*,  
 color = Color.Red,  
 fontWeight = FontWeight.Bold,  
 fontStyle = FontStyle.Italic,  
 modifier = Modifier.*padding*(horizontal = 60.*dp*)  
 )  
 Spacer(modifier = Modifier.*height*(30.*dp*))  
 Column(  
 verticalArrangement = Arrangement.Top,  
 horizontalAlignment = Alignment.Start,  
 modifier = Modifier  
 .*background*(  
 Color.White  
 )  
 .*padding*(top = 10.*dp*)  
 .*border*(2.*dp*, color = Color.Black)  
 .*height*(170.*dp*)  
 .*width*(600.*dp*)  
  
 ) **{** Text(  
 text = "Sanjanaa Srinivasan",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Red,  
 fontWeight = FontWeight.Medium,  
 fontStyle = FontStyle.Italic,  
 )  
 Text(  
 text = "sanjanaa0112@gmail.com",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 Text(  
 text = "9791193669",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 Text(  
 text = "B+ve",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 **}** Spacer(modifier = Modifier.*height*(2.*dp*))  
 Column(  
 verticalArrangement = Arrangement.Top,  
 horizontalAlignment = Alignment.Start,  
 modifier = Modifier  
 .*background*(  
 Color.White  
 )  
 .*padding*(top = 10.*dp*)  
 .*border*(2.*dp*, color = Color.Black)  
 .*height*(170.*dp*)  
 .*width*(600.*dp*)  
  
 ) **{** Text(  
 text = "R Srinivasan",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Red,  
 fontWeight = FontWeight.Medium,  
 fontStyle = FontStyle.Italic,  
 )  
 Text(  
 text = "rsrini@yahoo.co.in",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 Text(  
 text = "+9840079812",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 Text(  
 text = "O+ve",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 **}** Spacer(modifier = Modifier.*height*(2.*dp*))  
 Column(  
 verticalArrangement = Arrangement.Top,  
 horizontalAlignment = Alignment.Start,  
 modifier = Modifier  
 .*background*(  
 Color.White  
 )  
 .*padding*(top = 10.*dp*)  
 .*border*(3.*dp*, color = Color.Black)  
 .*height*(170.*dp*)  
 .*width*(600.*dp*)  
  
 ) **{** Text(  
 text = "Bhama S",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Red,  
 fontWeight = FontWeight.Medium,  
 fontStyle = FontStyle.Italic,  
 )  
 Text(  
 text = "bhamas70@hotmail.com",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 Text(  
 text = "9102293683",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 Text(  
 text = "B-ve",  
 modifier = Modifier.*padding*(all = 4.*dp*),  
 fontSize = 22.*sp*,  
 color = Color.Black,  
 fontWeight = FontWeight.Medium,  
 )  
 **}  
 }  
 }** }  
}