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1 Setting up the development Envisionment

step-y - Install the latest Canony build on Stable build of Android Studio

Step-2 - In Android Studio, go to Tool?

Step-3-In the SDK Platforms tab, select
Android TiramiruPrivacy Sandbox
Preview.

step-4 · In the SDK Tools tab, select Andoroid SDK Build - Tools 33.

step-5- Click OK to install the SDK

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2,	Implement an android application that demonstrates the use of scroll view for text with HTML formatting
	<pre> <scriollview>  <linearlayout vertical="">  <textview>  <button>  <html>  </html></button></textview></linearlayout></scriollview></pre>
	<pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre></pre></pre></pre>

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3, Develop an application that uses.
GIUI components. Font & Colows.

\( \text{?xml version} = "1.0" \) encoding = \( \text{uff} \) = \( \text{Mineral nd sold of the conditional of the condition of the condit

Text View

and word: id = "@+id/text View"

and word: layout\_width = "match\_parent"

and word: layout\_height = "wrap\_ content"

and word: gravity = "center"

and word: layout\_margin = "30 dp"

and word: text = "Hello World"

and word: text Size = "25 sp"

and word: text Style = "bold" />

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and soid: layout\_height="worap\_content" and soid: layout\_margin="20 dp" and soid: gravity ="center" and soid: text = "Change font Size" and soid: text Size = "255p" />

< Button

android i layout \_ width = "match Parent"

android i id = "@+ id / button2"

android i layout \_ height = "wrap\_content"

android i layout \_ margin = "20dp"

android i gravity = "center"

android i text = "Change Color"

android i textSize = "25 sp" />

Ч <u>.</u>	Develop	an application that uses	
	Layout	an application that uses Manages and event listeness	

<?xml version = "1.0" encoding? "utf-8"?</pre> K Relativel ayout xmlns: and rold = "http:// schemas. and roid.com/apk/res/android" xmlns: tools = "http://schemas.andnoid.com/ tools" "tnated\_tools; biored = "match\_parent" thereof \_tools; biored = "match\_parent" = thought = "match\_parent" = tools; context = ". Main Activity " >

Klinearlayout and and itayout\_with = "match\_parent" and and itayout\_height = "match-parent" < TextView "upin txst/bi+@"=bi:biorebano

android i layout - with = "match parent"

android i layout - height = "wrop parent"

android i layout - margin = "30dp"

android i text = "Details Farm"

android: textSize = "25sp"
android: gravity = "center" / > </Lin

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Cranidlayout
android; id = "0 + id/gridlayout"
android; layout\_width = "match\_parent"
android; layout\_height=" match\_parent"
android; layout\_marginTop = "10alp"
android; layout\_marginBottom = "200dp"
android; (o)umn(ount = "2" android; column (ount = "3" > < Text View " Ewail txat 1 bi+@" = bi i biorebra android: layout\_width = "wrap\_contant"
android: layout\_height=" wrap\_content"
android: layout\_margin=" 10dp"
android: layout\_row = "0" and roid; layout\_column = "O"
and roid; text = "Name" android: textSize = "20 sp" android: gravity = "center />. < Edit Text "txaTtibalbit@"= bi: biorchno android i layout\_width = "wrop\_content" android i layout\_height = "wrop\_content" android i layout\_row = "O" ardanid: Igyout\_coloumn = "I" TEACHER'S SIGNATURE

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anderoid i ems="10"/> < Text View anderoid: id = "@ + id /text View2"

anderoid: layout\_width = "werap content"

anderoid: layout\_height = "werap-content"

anderoid: layout\_margin = "10dp"

anderoid: layout\_row = "1"

anderoid: layout\_column = "0" android: text = "Reg. No"

android: textSize = "20sp"

android: gravity = "center" />

Edit Text. anderoid: id = @ + id / editText2"

anderoid: layout\_width = "warp\_ content
anderoid: layout\_height = "warp\_ content
anderoid: layout\_margin = "10 dp"
anderoid: layout\_ arow = "1"
anderoid: layout\_column="1" android: input Type = "number" android: ems = "10" /> <spinner:
android: id = "@+ id/ spinner:"
android: layout\_width = "wrap\_content"
android: layout\_height = "wrap\_content"</pre>

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android: layout margin = "10dp"
android: layout row = "2"
android: layout column = "1" < nwobgotb" = 960Mronnige: biorbas</p> < Button. "notted / bit = " @ + id / button" android: layout\_width = "wrap-content"
android: layout\_height = "wrap-content"
android: layout\_align Parent Bottom = "true"
android: layout\_center In Parent = "true" and soid i text = "Submit" /> < / Relative Layout > package com, example, ex no 2; imposit anderoid. content. Intent;
imposit anderoid. supposit. v 7. app. App. Grani
Activity;
imposit anderoid. Os. Bundle; import android widget, Text View.

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public class Second Activity extends Applom PatActivity { TextView t1, t2, t3; String name, reg, dept: priotected void on Cheate (Bundle saved Inst anceState){ Super, on Create (saved Instance State); set Content View (R. layout, activity\_second); ti = (Text View) find View By Id (R. id. text View) to = (Text View) find View By Id (R. id. text View 2); t3 = (TextView) find View By Id (R, id text View 3); Intent i = getIntent(); name = i , get String Extra ("name\_key"); reg = i get StringExtra ("reg\_key"); dept = i get StringExtra ("dept\_key"); ti. set Text (name); to set Text (neg); tz. setText (dépt);

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5. Write an application that traws basic graphical primitives on the screen.

<TmageView.
andsidilayout\_width = "match-parent"
andsioidilayout\_height="match-parent"
andsioidild="@+id/imageView"/>
</RelativeLayout >

package com. example. exno 4; imposit and soid app. Activity; imposit and soid graphics. Bitmap; imposit and soid graphics. Canvas; imposit and soid graphics. Calor; imposit and soid graphics. Calor; imposit and soid graphics, Paint; imposit and soid, graphics, drawable; imposit and soid, graphics, drawable;

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| imposit and soid os Bundle;<br>imposit and soid widget. Image View;  |
| Public class MainActivity extends Activity   |
| Q Overbuide. Public void on Oneate (Buindle saved Instance State)  |
| super . on Create (saved Instance State);<br>set (our tent View (R. layout, activity - main)   |
| Bitmap bg = Bitmap.coneateBitmap (720, 1280, Bitmap.Config.ARG 8888),  |
| ImageView i = (ImageView) findView ByJd. (R. id., imageView);  |
| ImageView i = (ImageView) findView ByJd.  (R. id . imageView);  i setBackground Drawable (new Bitmap)  rowable (bg));  |
| (anvas canvas = new Canvas(bg);  |
| Paint paint = new Paint ();  paint, set (olor) ((olor, Blue);  paint, set Text Size (50);  |
| <br>paint. set Text Size (50);   |

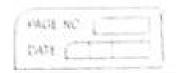
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Canvas, driawText ("Rectangle", 420, 150, paint); Canvas, driawRect (400, 200, 650, 700, paint);

Canvas, drawText ("Circle", 120, 150, paint), Canvas, drawRect ("200, 350, 150, paint),

Canvas, driawText ("Square", 120, 800, paint); Canvas, driawRect ("50, 850, 350, 1150, paint);

Canvas, drawTex + ("Line", 480,800, paint); canvas, drawRect ("520, 850, 520,1150, paint);



Develop an application that makes use of database.

package com.example.exno5; imposit and soid app. Activity; insposit and soid app. Alesid Dialog. Builder: insposit and soid content. Context; treogrami and soid. database. Curser: stilbs, stilps, seodotob, biorebno treaqmi Database i

instruction in treadmi

public class Main Activity extrends Activity implements On Click Listener

EditText Rollno, Name, Marks: Button Insert, Delete, Update, View, View All; SaliteDatabase db;

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public void on Greate ( Bundle saved Instance State)

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Super. on Careate (saved. Instance State); set Content View (R. Layout. activity\_main)

Roll-no=(EditText) find View By Id (R. id. Rollno),
Name = (EditText) find View By Id (R. id. Name);
Marks = (EditText) find View By Id (R. id. Marks);
Insert = (Button) find View By Id (R. id. Insert);
Delete = (Button) find View By Id (R. id. Delete);
Update = (Button) find View By Id (R. id. Update);
View = (Button) find View By Id (R. id. View);
View All = (Button) find View By Id (R. id. View All);

Insert. setOnClickListener (this);
Delete. set On ClickListener (this);
Update. setOnClickListener (this);
View, setOnClick Listener (this);
View: All setOnClick Listener (this);

db = open On CreateDatabase ("Student DB", Context, MODE\_PRIVATE, null); db = exec SQL ("SØ CREATE TABLE IF NOT EXIST student (noll no VARCHAR, name VARCHE) marks VARCHAR); ");

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|   | public void on (lick (View view)  |
|   |   |
|   | if (view == Insent)   |
|   | (C) (D) 11 - 17 - 17 - 17 - 17 - 17 - 17 - 17   |
|   | == 0.11 Name and Tayt() to Storma(), to im(), length()  |
|   | if (Rollno, get Text(), to Storing(), to im(), length() == 0.11 Name, get Text(), to Storing(), to im(), length == 0.11 Marks.get Text(), to Storing(), to im(), length==0) |
|   | Show Message ("Eswosi", "Please enter all value").  |
|   | 3   |
|   | db. execSQL ("INSERT INTO student VALUES ("   |
|   | + Rollno.getText()+"; "+Name.getText()+ "', "+Morks.getText()+" '); "); show Message ("Success", "Record added");   |
|   | show Message ("Success", "Recard added");   |
|   | clean Text();   |
|   | if (view = = Delete)  |
|   | {   |
|   | if (Rollno.get Text(), to String (), train(), length()=0)   |
|   | show Message ("Eswich", "Please enter Rollm");  |
|   | netwin;   |
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| _ | Curson c=db.gawQuery ("SELECT * FROM student WHERE grollno="+Rollno.getText();", null); if (c.moveTofigist())          |
|   | 1 4  |
|   | db.exec SQL ("DELETE FROM student WHERE sollno = " + Rollno.getText()+ "); show Message ("Success", "Record Deleted"); |
|   | <u> </u>   |
|   | else<br>{<br>showMessage ("Extrox", "Invalid Rollno");   |
| _ | clean Text();  |
|   | if (view = View All)   |
|   | (wrson c=db, naw Queny ("SFLECT FROM student   |
|   | if (ciget Count () == 0')  |
|   | show Message ("Enviori", "No meconds found";   |

Storing Buffer buffer new Storing Buffer ();

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| while (c.moveToNext())   |
|  |
| buffer append ("Rollno:" + c.get strung (0)+                   |
| buffer, append ("Name:"+c,getStoring(1)+                       |
| buffer, append ("Marks" + c,get String(2) + "\n");             |
|  |
| show Message ("Student Details", buffer. to Storing ());       |
| to Storing ());  |
| <br>)  |
| public void showMessage (Storing title, Storing message)       |
| <br>message)   |
| Builder builder = new Builder (this);                          |
| builder get (ancelable (torne);                                |
| builder, set Cancelable (tome);<br>builder, set Title (title); |
| builder set Message (message);<br>builder show ();             |
| builder, show ();  |
| <br>July interest Toward ()                                    |
| public void · clean Text ()                                    |
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| FAGE NC.   |
|--|
| Rollno. setText (""); Name. setText (""); Marks. set Text (""); Rollno. request Focus (); 3. |
|  |
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