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1(b) To display selected radio option is a toast from four radio options.

XML File (activity-main.xml)

< Linear Layour

android: layour_width = "maten-parent"

android: layout_hight="maten_parent"

and mid : orientation = "vertical"

Elinear Layout

anaroid: layout_width="match_parent".

android: layout_height = "mater-parent"

android : orientation = "vertical"

<Text View

androia: layout. wether "match - parent"

and roid , layout_ hught = "wrap-content '> </Text view

< Radio 4 mup

anamia: id = " G + id / Radio"

android: Layout_ width = "mateh_parent"

and roid: layout height="wrap-content">

Zrasio Bulton

androiditd = " @ +id 1761"

and roid : text = " option 1" />

< Radio Button

android: id = " (a+id/rb2"

and mid: text = "Option 2"/>

Lladio Button

android: id =" (Q+id 17b3"

android: lext = "Option 3"/>

```
< Radio Button
```

android: id = "Q+id /rb4".

android! bxt = " opion 41/>

</ redio group>

+ LBULLON android: id = "@+id/button"

android : text=" submit"/>

Activity Main. Java

package com. crample. radiobutton assignment

eniport...

public class MainActivity extends App CompatActivity { Bulton subnut. RadioGroup radioGroup;

Radiobution radio Button;

o option1

o option 2

o option 3

Doption 4

subnut

J

@ Override

protected void oncrease (Bunda saved Instancestate) ;

super. on Create (saved in toncestany.

Sct Content view (R. layout , layout);

radio group = find view Byld (Rid . Radio);

subnit = fid view By Id (R. id . button);

@ option1

0 option 2

Ooptions Option 4

6 (option 1

(Foart mig) susmit seton lücklistener (new View onclicklistener() {

@ ovemide

public void oncuck (view v) {

int checked = radiogroup. get Checked Radio Buttonid (); radio Bulton = find view by 1d (checked);

Toast. make Text (get Application Context (), radio button

· ger Text (). tosuring (), Toast . LENGTH - LONG) show (); 537

```
Page 3 0/10
2 (a) Main Activity. Java
       package com. example. mussage to a number
      import ...
      Public class main's divy crunds App compataction dy &
            EditText sms;
            Button button
            @Overnie
             protected rois oncreate (Bundle saved Instancestate)
                  super.oncrean (saved instance state);
                  set Content view ( R. layour . activity - main);
                  (ms = finavion Byld (R. id . editfext);
                  bullon = find viewby Id (R. id. button);
                  button. set Onclick Listener ( new View. Onclick Listener 1) {
                      Overná
                       public void onclien (view view) {
                                   Sms Manager sms Manager = Sms Marager. get Default ();
                                    sme Manger. cendrext Message (phone. get Text 1). 10
                                    tosiny (), nul, nul);
                                   Toast. maketext (get Application Context 1), "smsent,"
                                    TOOL + . LENGTH_SHORT ) . Show ();
                                3 catch (Exception e) {
                                  Town make ext (get Application context (), " Failure",
                                   Toast, LENGTH_BHORT) . Show ();
                             3
```

3);

Android Manifest: vme (for permissions)

< user - permission andmis: name = andmid . pumulon.

RECEIVE_SMS" took : ignor =

"Fermission Implies Unsupported Chromets Hardware"/>

zuer-permission android: name=" android . permission. 2END-2M2"

took: ignore=" permission Implies Un cupported Company os

Andrew Fr. Angel Andrew Fr. P. Company

MESSAGE ME! Number: Name Message: SEND

3 (b) Relational Database Management System and Firstbare are both databases but they both are very different.

RDBMS

X

RABMS classifies data into various lables based on related data types. 9+ is based on dorrain -specific programming language, often called Structured query language. This can be on about or on-premise. It has predefined schemas and is

- It is mostly used from relational data and transactions
- It is on the system or several clouds provide support mangiged version.
- Based on concepts of tanks 4
- Tough to scale up as all are related-
- Rigid in design

table based.

FIREBASE

x. Firebaic realtime Database (Fifebase) is a cloud based NOSQL database that synce and stores data in real-time. It is used to create serveries appar. (Non relational)

- * Firebase has dynamic schema and is not necessarily table based as. updation is easy without compronising with design.
- * Suitable for realline application
- * Support is given by Googee Cloud Platform.
- A Based on the concept of concening and documents.
- * fasily scalable.
- * Very ferrisu anign

supple to Ashir

```
Code to insert data to firebase

send = [Button] find view Byld [R.id. send Button];

send message *(EditText) find view Byld [R.id. message Area);

Furebase.ser Android Context (this);

final Firebase ref = new Firebase ("furebase enat link");

Send. Set Doncieck listenes (new View. Doncieck Listener ();

(a) Overnou

public void Oncliek (view v) {

message message = new message ("hi", send message.

get Text!).to Suring (), "123");

ref. push ().set Value (Appessage);

send mussage.set Text ("");
```

```
4
```

xml code example

```
< unicarlayout
```

androia: layout_width'="file-parent"

and roid: layout neight : "fill parent"

android: orientection = "vertical">

< Button

androio: id = @ +id / button 1';

anchoid : -text = "Button 1"

android: layout_weight = "1">

2/Button >

< Button

android: id = "@ + id / button 2";

android: la your_width = "wrap -content";

and roid: layour-height ="wrap-content";

android: lext = "Button 2"

and roid : dayout - weight : 1

android: layout gravity = "center";

2/Button>

< Button

and roid: id = "Q + id 1 button 2";

and roid: layout_wider = "wrap_content";

and roid: layout_height = "wrap_content";

and roid: layout_weight = "1";

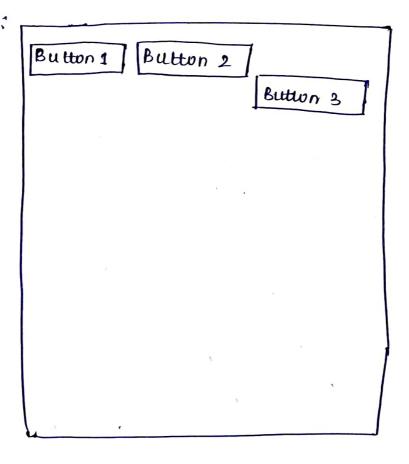
and roid: layout_weight = "1";

and roid: layout_gravity = 'top right';

and roid: layout_margin top = 10 dp;

21 Bulton >

output



- (a) layout-gravity: It is used for alignment. It is used for dimonstrating alignment settings.
 - eg top right, top left, center, bottom right etc.
- layout_height! It is used to specify absolute values for the component height and width respectively units include = dep = density independent pixels

sp = scale -independentpixels

pt = 1/72 of inch

px = pixeus

mm and in

other constants are mater-parent = element occupies all the available width neight and wrap-content = width / height is determined by the content of the element.

- layout_orientation & It nups to configure the root layout with they type of (0 be set for the application, horizontal or vertical.
- layout_weight: Free space in an app is distributed proportionally to element weight values using this feature. If we we eg 16 we want equal space for, use weight = 1. (50-50)
- layout margin: Margin can be on all sides at once or only on the sides margin = 50 dp. 7. This makes a margin of 50 dp around the element. margin top = 10 dp + Makes a margin of 10 ap above the element.

Program to use SetOncharge listener function (

public void onchange (first EditText Ed, final Runnable Frun) {

Ed. set on Change listener (new Onchange lutterer () [

Queride

Public void onfocus change (View V, boolian has Focus) {

l'f (has Focus change (View V, boolian has Focus) {

else if (! coms (dat. s." "+ Ed. T(" get Text ())) }

post (Frun); } }

-x____x____x