

Source Code

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MainMenu.java

```
package com.example.kushbanbah1.comsiia;

import android.app.AlarmManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;
import android.os.SystemClock;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.View;
import android.widget.CheckBox;
import android.widget.CompoundButton;
import android.widget.EditText;
import android.widget.Toast;

public class MainMenu extends AppCompatActivity {

    AlarmManager alrmnger;
    PendingIntent pendingIntent;
    CheckBox disablealarm;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main_menu);

        setup();
    }

    public void setup()
    {
        FloatingActionButton fab;
        fab = findViewById(R.id.fab);
        final Intent start = new Intent(this, HelpPage.class);
        start.putExtra("ID", 0);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                startActivity(start);
            }
        });
        final EditText bob = findViewById(R.id.day_enterer);
        final utility util = new utility();

        SchoolClassAlarm a = util.ReadAlarmFile(getApplicationContext());

        String g = a.day_1_2+"";
        bob.setText(g);
        disablealarm = findViewById(R.id.radio_but);
    }
}
```

```

        disablealarm.setChecked(a.enabled);

        disablealarm.setOnCheckedChangeListener(new
CompoundButton.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {

                if (isChecked) {
                    enablealarms();
                    SchoolClassAlarm alam =
util.ReadAlarmFile(getApplicationContext());

                    alam.enabled = true;

                    util.SaveAlarmFile(alam, getApplicationContext());

                } else {
                    disablealarms();
                    SchoolClassAlarm alam =
util.ReadAlarmFile(getApplicationContext());

                    alam.enabled = false;

                    util.SaveAlarmFile(alam, getApplicationContext());

                }
            }
        });

    });

    bob.setInputType(2);

    if(a.enabled)
    {enablealarms();}

    TextWatcher watch = new TextWatcher() {
        String backup;
        @Override
        public void beforeTextChanged(CharSequence s, int start, int count, int after)
        {
            backup = s.toString();
        }

        @Override
        public void onTextChanged(CharSequence s, int start, int before, int count) {

        }

        @Override
        public void afterTextChanged(Editable s) {
            if (s.length()!=0) {

```

```

        if ((Integer.parseInt(s.toString()) != 1 &&
Integer.parseInt(s.toString()) != 2))
        {
            Toast toast = Toast.makeText(getApplicationContext(),
                "Incorrect input, only 1 or 2 is accepted",
                Toast.LENGTH_SHORT);

            toast.show();
            bob.setText(backup);

        }
        else
        {
            disablealarms();

            SchoolClassAlarm alam =
util.ReadAlarmFile(getApplicationContext());
            alam.day_1_2 = Integer.parseInt(s.toString());

            util.SaveAlarmFile(alam, getApplicationContext());
            if(alam.enabled)
            {enablealarms();}

        }
    }
};

bob.addTextChangedListener/watch);

}
public void OpenHWClass(View v)
{
    Intent openHomeworkMenu = new Intent(this, ClassHomeworkMenu.class);

    startActivity(openHomeworkMenu);
}

public void OpenDayTasks(View v)
{
    Intent openDayTasks = new Intent(this,DayTaskView.class);
    startActivity(openDayTasks);
}

public void disablealarms()
{
    if (alrmnger != null) {
        alrmnger.cancel(pendingIntent);
    }
    AlarmSetupSchoolClass del = new AlarmSetupSchoolClass();
    del.deletealarms();
}

public void enablealarms()

```

```
{
    alrmnger = (AlarmManager) getSystemService(Context.ALARM_SERVICE);

    Intent intent = new Intent();
    intent.setAction("SETUPALRM");
    pendingIntent = PendingIntent.getBroadcast(this, 0, intent, 0);

    alrmnger.setInexactRepeating(AlarmManager.ELAPSED_REALTIME_WAKEUP, SystemClock.elapsedRealtime() + 110, AlarmManager.INTERVAL_FIFTEEN_MINUTES/240, pendingIntent);
}

}
```

ClassHomeworkMenu.java

```
package com.example.kushbanbah1.comsiia;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

import java.util.Calendar;
import java.util.Date;

public class ClassHomeworkMenu extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_menu_classhomework);
        setup();
    }

    public void manageHW(View v) {
        Intent open_manageHW = new Intent(this, HomeworkClassView.class);
        startActivity(open_manageHW);
    }

    public void manageClass(View v) {
        Intent open_manageClass = new Intent(this, SchoolClassView.class);
        startActivity(open_manageClass);
    }

    @SuppressWarnings("SetTextI18n")
    public void setup() {
        FloatingActionButton fab;
        fab = findViewById(R.id.fab);
        final Intent start = new Intent(this, HelpPage.class);
        start.putExtra("ID", 1);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                startActivity(start);
            }
        });
        TextView upcoming = findViewById(R.id.up_hw);
        Homework_class util = new Homework_class();

        SchoolClass_class subject = new SchoolClass_class();
        util = util.recentHW(getApplicationContext());

        upcoming.setLines(2);
        if (util.Task == null) {
            upcoming.setText("No Upcoming tasks!");
        }
    }
}
```

```

    } else
    {
        Calendar c = Calendar.getInstance();
        int diff =(int) ( (c.getTimeInMillis() - util.duedate.getTime())/ (24 * 60 *
60 * 1000));

        upcoming.setText("Upcoming Task of " +
subject.findclassbynameorid(util.Class_ID, getApplicationContext()).name + " is: " +
util.Task+" ". ")+((diff*-1)+1)+" day/s left");
    }

}

public void onResume() {
    super.onResume();
    setup();
}

}

```


SchoolClassView.java

```
package com.example.kushbanbah1.comsiia;

import android.content.Intent;
import android.graphics.Typeface;
import android.support.design.widget.FloatingActionButton;
import android.support.v4.widget.NestedScrollView;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
import android.widget.Space;
import android.widget.TextView;
import java.util.ArrayList;
import java.util.Random;

public class SchoolClassView extends AppCompatActivity {

    LinearLayout layout;
    NestedScrollView scroll;
    ArrayList<Integer> ID = new ArrayList<Integer>();
    utility util = new utility();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_view_class);
        layout = findViewById(R.id.Holder);
        scroll = findViewById(R.id.scrollview);

        setup();
    }
    @Override
    public void onResume() {
        super.onResume();
        setup();
    }

    public void setup()
    {

        FloatingActionButton fab;
        fab = findViewById(R.id.fab);
        final Intent start = new Intent(this, HelpPage.class);
        start.putExtra("ID", 2);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                startActivity(start);
            }
        });
        if((layout).getChildCount() > 0)
            (layout).removeAllViews();
    }
}
```

```

ArrayList<SchoolClass_class> list = util.ReadSchoolClass(getApplicationContext());
if(list!= null) {
    for (int i = 0; i < list.size(); i++) {

        LinearLayout layouti = new LinearLayout(getApplicationContext());

        layouti.setOrientation(LinearLayout.VERTICAL);

        TextView itemnew = new TextView(getApplicationContext());
        String label;
        if(list.get(i).Block != 0){
            label = "Name: " + list.get(i).name + " the Day is " +
list.get(i).Day_0_1_2 + " The Block is " + list.get(i).Block;}
        else
        {
            label = "Name: " + list.get(i).name + " the time is unscheduled";
        }

        itemnew.setText(label);

        Button del_but = new Button(getApplicationContext());

        del_but.setTag(list.get(i).ID);

        del_but.setText("Delete Class");
        Random rand = new Random();

        boolean found;
        do {
            found = true;
            int test = rand.nextInt(1000) + 1;

            for (int c = 0; c < ID.size(); c++) {

                if (test == ID.get(c)) {
                    found = false;
                    break;
                }

            }

            if (found) {
                del_but.setId(test);
                break;
            }
        } while (true);

        del_but.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {
                SchoolClass_class classtest = new SchoolClass_class();
                Button but = findViewById(v.getId());

```

```
delete(classtest.findclassbynameorid(Integer.parseInt(but.getTag().toString()),
getApplicationContext()));
```

```
    }
});
```

```
Button edit = new Button(getApplicationContext());
```

```
do {
    found = true;
    int test = rand.nextInt(1000) + 1;

    for (int c = 0; c < ID.size(); c++) {

        if (test == ID.get(c)) {
            found = false;
            break;
        }

    }

}
```

```
    if (found) {
        edit.setId(test);
        break;
    }
} while (true);
edit.setTag(list.get(i).ID+"");
edit.setText("Edit Class");

edit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        SchoolClass_class classtest = new SchoolClass_class();
        Button but = findViewById(view.getId());
```

```
        classtest =
        classtest.findclassbynameorid(Integer.parseInt(but.getTag().toString()),
        getApplicationContext());
```

```
        Intent openclass = new Intent(view.getContext(),
AddEditSchoolClass.class);
        openclass.putExtra("ID", classtest.ID);
        startActivity(openclass);
    }
});
```

```
Typeface tfFutura = Typeface.create("casual",Typeface.NORMAL);
itemnew.setTextSize(20);
```

```

        del_but.setTypeface(tfFutura);
        itemnew.setTypeface(tfFutura);
        edit.setTypeface(tfFutura);
        layouti.addView(itemnew);
        layouti.addView(del_but);
        layouti.addView(edit);

        Space space = new Space(getApplicationContext());
        space.setMinimumHeight(70);
        layouti.addView(space);
        layout.addView(layouti);
    }

}

}

public void delete(SchoolClass_class del)
{
    ArrayList<SchoolClass_class> list =
    util.ReadSchoolClass(getApplicationContext());
    ArrayList<Homework_class> listhw = util.ReadHW(getApplicationContext());
    for(int e = 0; e< listhw.size(); e++)
    {
        if(del.ID == listhw.get(e).Class_ID)
        {
            listhw.remove(e);
        }
    }
    for (int c = 0; c < list.size(); c++) {
        if (list.get(c).ID == del.ID) {
            list.remove(c);
        }
    }
    util.SaveSchoolClass(list,(getApplicationContext());
    util.SaveHW(listhw,(getApplicationContext());

    setup();

}

public void clicked(View v)
{
    Intent lel = new Intent(this, AddEditSchoolClass.class);
    startActivity(lel);
}
}

```

AddEditSchoolClass.java

```

package com.example.kushbanbah1.comsiia;

import android.content.Intent;
import android.content.res.Resources;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;

import java.util.ArrayList;

public class AddEditSchoolClass extends AppCompatActivity {

    Spinner Daylist;

    utility util = new utility();
    EditText name;

    SchoolClass_class edit = new SchoolClass_class();
    Resources res;
    boolean editing = false;
    //Page to add homework

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_add_edit_class);

        int ID = getIntent().getIntExtra("ID", 0);
        if(ID!=0)
        {
            edit = edit.findclassbynameorid(ID,getApplicationContext());
            editing = true;
            editsetup();
        }
        else{
            Daylist = findViewById(R.id.Days);
            ArrayAdapter<CharSequence> Daysadpater = ArrayAdapter.createFromResource(this,
R.array.Days,android.R.layout.simple_spinner_dropdown_item);
            Daylist.setAdapter(Daysadpater);
            FloatingActionButton fab;
            fab = findViewById(R.id.fab);
            final Intent start = new Intent(this, HelpPage.class);
            start.putExtra("ID", 3);
            fab.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View view) {

```

```

        startActivity(start);
    }
    });
}

}

public void addclass(View v)
{
    if(editing)
    {
        EditText ClassName = findViewById(R.id.classname);

        String daytime = Daylist.getSelectedItem().toString();
        if(!daytime.equals("Outside Schedule")) {
            daytime = daytime.replaceAll("\\D+", "");
            int Day = Integer.parseInt(daytime.substring(0, 1));
            int block = Integer.parseInt(daytime.substring(1));

            edit.Day_0_1_2 = block;
            edit.Block = Day;
            edit.name = ClassName.getText().toString();

        }
        else
        {
            edit.name = ClassName.getText().toString();
            edit.Block = 0;
            edit.Day_0_1_2=0;

        }

        ArrayList<SchoolClass_class> list=
        util.ReadSchoolClass(getApplicationContext());

        for(int e = 0; e<list.size(); e++) {
            if(list.get(e).ID == edit.ID)
            {
                list.remove(e);
                list.add(edit);
            }
        }

        ClassName.setText("") ;

        util.SaveSchoolClass(list, getApplicationContext());

    }
}

```

```

else
{
    EditText ClassName = findViewById(R.id.classname);
    SchoolClass_class newclass = new SchoolClass_class();
    String daytime = Daylist.getSelectedItem().toString();
    if(!daytime.equals("Outside Schedule")) {
        daytime = daytime.replaceAll("\\D+", "");
        int Day = Integer.parseInt(daytime.substring(0, 1));
        int block = Integer.parseInt(daytime.substring(1));

        newclass.Day_0_1_2 = block;
        newclass.Block = Day;
        newclass.name = ClassName.getText().toString();

    }
    else
    {
        newclass.name = ClassName.getText().toString();
        newclass.Block = 0;
        newclass.Day_0_1_2=0;

    }

    ArrayList<SchoolClass_class> temp=
    util.ReadSchoolClass(getApplicationContext());
    newclass.setID(temp);
    temp.add(newclass);

    ClassName.setText("") ;

    util.SaveSchoolClass(temp, getApplicationContext());

}

Intent leave = new Intent(this, SchoolClassView.class);
startActivity(leave);

}

public void editsetup()
{
    FloatingActionButton fab;
    fab = findViewById(R.id.fab);
    final Intent start = new Intent(this, HelpPage.class);
    start.putExtra("ID", 4);
    fab.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            startActivity(start);

        }
    });
}

```

```

Daylist = findViewById(R.id.Days);
res = getResources();
name = findViewById(R.id.classname);
name.setText(edit.name);
String[] test = res.getStringArray(R.array.Days);
ArrayAdapter<String> adapter = new
ArrayAdapter<String>(this, android.R.layout.simple_spinner_dropdown_item);

for(int i = 0; i<test.length; i++)
{
    String dayblock=test[i].replaceAll("\\D+", "");
    String testing = edit.Block+""+edit.Day_0_1_2;

    if(testing.equals(dayblock)) {
        adapter.add(test[i]);
    }
}

for(int c = 0; c<test.length; c++)
{
    String dayblock= test[c].replaceAll("\\D+", "");
    String testing = edit.Day_0_1_2+""+edit.Block;
    if(!(testing.equals(dayblock))) {
        adapter.add(test[c]);
    }
}
Button but = findViewById(R.id.add_but);
but.setText("Edit Class");

Daylist.setAdapter(adapter);

}

}

```


SchoolClass_class.java

```

package com.example.kushbanbah1.comsiia;

import android.content.Context;
import android.util.Log;

import java.util.ArrayList;
import java.util.Random;

public class SchoolClass_class {

    int ID;
    int Day_0_1_2;
    int Block;
    String name;

    public void setID(ArrayList<SchoolClass_class> SCLIST)
    {
        Random rand = new Random();
        if(SCLIST.size() == 0)
        {
            ID = 1;
        }
        else {
            boolean found;
            do {
                found = true;
                int test = rand.nextInt(1000) + 1;

                for (int c = 0; c < SCLIST.size(); c++) {

                    if (test == SCLIST.get(c).ID) {
                        found = false;
                        break;
                    }

                }

                if(found)
                {
                    ID = test;
                    break;
                }
            } while (true);
        }
    }

    public SchoolClass_class findclassbynameorid(String name, Context c)
    {
        utility util = new utility();
        SchoolClass_class classfound = new SchoolClass_class();
        ArrayList<SchoolClass_class> list = util.ReadSchoolClass(c);
        for(int i = 0; i<list.size(); i++)
        {
            if(list.get(i).name.equals(name))
            {

```

```

        classfound = list.get(i);
        break;
    }

}

return classfound;

}

public SchoolClass_class findclassbynameorid(int IDf, Context c)
{
    utility util = new utility();
    SchoolClass_class classfound = new SchoolClass_class();
    ArrayList<SchoolClass_class> list = util.ReadSchoolClass(c);
    for(int i = 0; i<list.size(); i++)
    {
        if(list.get(i).ID == IDf)
        {
            classfound = list.get(i);
            break;
        }
    }

    return classfound;

}

}

```

HomeworkClassView.java

```
package com.example.kushbanbah1.comsiia;

import android.content.Intent;
import android.graphics.Typeface;
import android.support.design.widget.FloatingActionButton;
import android.support.v4.widget.NestedScrollView;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
import android.widget.Space;
import android.widget.TextView;

import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.Collections;
import java.util.Date;
import java.util.Random;

public class HomeworkClassView extends AppCompatActivity {

    LinearLayout lay;
    NestedScrollView scroll;
    ArrayList<Homework_class> list;
    ArrayList<Integer> ID = new ArrayList<Integer>();
    utility util = new utility();
    FloatingActionButton fab;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_view_homework);
        lay = findViewById(R.id.holder);
        fab = findViewById(R.id.fab);
        scroll = findViewById(R.id.scrollview);
        setup();
    }

    public void onResume() {
        super.onResume();
        setup();
    }

    public void NewHW(View v)
    {
        Intent lel = new Intent(this, AddEditHomework.class);
        startActivity(lel);

    }

    public void setup() {
        final Intent start = new Intent(this, HelpPage.class);
```

```

start.putExtra("ID", 5);
fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        startActivity(start);
    }
});

SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");
ArrayList<Homework_class> list = util.ReadHW(getApplicationContext());
SchoolClass_class idclass = new SchoolClass_class();
Homework_class e = new Homework_class();
Collections.sort(list ,new Homework_class());

if(( lay).getChildCount() > 0)
    ( lay).removeAllViews();

for (int i = 0; i < list.size(); i++) {
    LinearLayout layouti = new LinearLayout(getApplicationContext());

    layouti.setOrientation(LinearLayout.VERTICAL);

    TextView itemnew = new TextView(getApplicationContext());
    Calendar m = Calendar.getInstance();
    int diff =(int) ( (m.getTimeInMillis() - list.get(i).duedate.getTime())/
(24 * 60 * 60 * 1000));
    String label = "Class Name is: " +
idclass.findclassbynameorid(list.get(i).Class_ID, getApplicationContext()).name + " the
Task is " + list.get(i).Task + " The Date is " + fmt.format(list.get(i).duedate)+" and
"+((-1*diff)+1)+" days left";

    itemnew.setText(label);

    Button del_but = new Button(getApplicationContext());

    del_but.setTag(list.get(i).Homework_ID);

    del_but.setText("Delete Homework");
    Random rand = new Random();

    boolean found;
    do {
        found = true;
        int test = rand.nextInt(1000) + 1;

```

```

        for (int c = 0; c < ID.size(); c++) {

            if (test == ID.get(c)) {
                found = false;
                break;
            }

        }

        if (found) {
            del_but.setId(test);
            break;
        }
    } while (true);

del_but.setOnClickListener(new View.OnClickListener() {

    public void onClick(View v) {

        Homework_class classtest = new Homework_class();
        Button but = findViewById(v.getId());

delete(classtest.findbyID(Integer.parseInt(but.getTag().toString()),
getApplicationContext()));

    }

});
Typeface tfFutura = Typeface.create("casual",Typeface.NORMAL);
itemnew.setTextSize(20);
del_but.setTypeface(tfFutura);
itemnew.setTypeface(tfFutura);
layouti.addView(itemnew);

layouti.addView(del_but);

Button edit = new Button(getApplicationContext());

do {
    found = true;
    int test = rand.nextInt(1000) + 1;

    for (int c = 0; c < ID.size(); c++) {

        if (test == ID.get(c)) {
            found = false;
            break;
        }

    }

}

```

```

        if (found) {
            edit.setId(test);
            break;
        }
    } while (true);

    edit.setTag(list.get(i).Homework_ID);
    edit.setText("Edit Homework");
    edit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            Homework_class classtest = new Homework_class();
            Button but = findViewById(view.getId());

            classtest =
            classtest.findbyID(Integer.parseInt(but.getTag().toString()), getApplicationContext());
            Intent openclass = new Intent(view.getContext(),
            AddEditHomework.class);
            openclass.putExtra("ID", classtest.Homework_ID);

            startActivity(openclass);
        }
    });

    edit.setTypeface(tfFutura);
    lay.addView(layouti);
    lay.addView(edit);
    Space space = new Space(getApplicationContext());
    space.setMinimumHeight(70);
    lay.addView(space);
}

}

public void delete (Homework_class del)
{

    ArrayList<Homework_class> list = util.ReadHW(getApplicationContext());

    for (int c = 0; c < list.size(); c++) {
        if (list.get(c).Homework_ID == del.Homework_ID) {
            list.remove(c);
        }
    }
    util.SaveHW(list, getApplicationContext());

    setup();
}

```

}

}

AddEditHomework.java

```
package com.example.kushbanbah1.comsiia;

import android.content.Intent;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.CalendarView;
import android.widget.EditText;
import android.widget.Spinner;
import java.text.SimpleDateFormat;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.Date;

public class AddEditHomework extends AppCompatActivity {

    CalendarView calender;
    Spinner SubList;
    Date datedue;
    utility util = new utility();
    boolean editing = false;
    Homework_class edit = new Homework_class();
    EditText Desc;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_add_edit_homework);
        Desc = findViewById(R.id.Edit);

        SubList = findViewById(R.id.spinner);

        int ID = getIntent().getIntExtra("ID", 0);
        if(ID!=0)
        {
            editing= true;
            edit = edit.findbyID(ID, getApplicationContext());
            editsetup();
        }
        else {
            setup();
        }
    }

    public void setup() {

        FloatingActionButton fab;
        fab = findViewById(R.id.fab);
```



```

final Intent start = new Intent(this, HelpPage.class);
start.putExtra("ID", 6);
fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        startActivity(start);
    }
});

ArrayList<SchoolClass_class> list = util.ReadSchoolClass(getApplicationContext());

    ArrayAdapter<String> adapter = new
ArrayAdapter<String>(this, android.R.layout.simple_spinner_dropdown_item);
    for(int i = 0; i<list.size();i++)
    {
        adapter.add(list.get(i).name);
    }

SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");

Calendar cal= Calendar.getInstance();
datedue = new Date();

SubList.setAdapter(adapter);

calender = findViewById(R.id.duedate);
calender.setOnDateChangeListener(new CalendarView.OnDateChangeListener() {

    @Override
    public void onSelectedDayChange(CalendarView arg0, int year, int month, int
date) { //runs whenever user selects a date, allows for date to be constantly saved
        datedue = new Date();
        SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");
        month++;

        String day, mth;
        mth = Integer.toString(month);
        day = Integer.toString(date);

        try {

            if (month < 10) {

                mth = "0"+Integer.toString(month);
            }
            if (date < 10) {

                day = "0"+Integer.toString(date);
            }
            datedue = fmt.parse(year + "-" + (mth) + "-" + day);

```

```

        } catch (Exception e) {
        }
    }
});
}

public void clicked(View v)
{
    String name = SubList.getSelectedItem().toString();

    String desc = Desc.getText().toString();

    if(editing)
    {
        SchoolClass_class utilc = new SchoolClass_class();
        utilc = utilc.findclassbynameorid(name, getApplicationContext());

        edit.Task = desc;
        edit.Class_ID = utilc.ID;
        edit.duedate = datedue;
        ArrayList<Homework_class> list = util.ReadHW(getApplicationContext());
        for(int c = 0; c<list.size(); c++)
        {
            if(list.get(c).Homework_ID == edit.Homework_ID)
            {
                list.remove(c);
                list.add(edit);
            }
        }
        util.SaveHW(list, getApplicationContext());
    }
    else {
        Homework_class newhw = new Homework_class();
        newhw.Task= desc;
        newhw.duedate = datedue;

        SchoolClass_class utilc = new SchoolClass_class();
        utilc= utilc.findclassbynameorid(name, getApplicationContext());
        newhw.Class_ID = utilc.ID;

        ArrayList<Homework_class> list = util.ReadHW(getApplicationContext());
        newhw.makeID(list);

        list.add(newhw);

        util.SaveHW(list, getApplicationContext());
    }
    //saves all the inputs into a new obj, sets it up by giving it an ID then saves
    into master file
    startActivity(new Intent(this, HomeworkClassView.class));
}

```

```

    }

    public void editsetup()
    {
        FloatingActionButton fab;
        fab = findViewById(R.id.fab);
        final Intent start = new Intent(this, HelpPage.class);
        start.putExtra("ID", 7);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                startActivity(start);
            }
        });
        Desc.setText(edit.Task);
        Button add_but = findViewById(R.id.Add_HW);
        add_but.setText("Edit Homework");

        ArrayList<SchoolClass_class> list = util.ReadSchoolClass(getApplicationContext());

        ArrayAdapter<String> adapter = new
        ArrayAdapter<String>(this, android.R.layout.simple_spinner_dropdown_item);

        for(int q = 0; q<list.size(); q++)
        {
            if(list.get(q).ID == edit.Class_ID)
            {
                adapter.add(list.get(q).name);
            }
        }

        for(int i = 0; i<list.size();i++)
        {
            if(!(list.get(i).ID == edit.Class_ID)) {
                adapter.add(list.get(i).name);
            }
        }

        SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");

        datedue = edit.duedate;
        SubList.setAdapter(adapter);

        calender = findViewById(R.id.duedate);

        calender.setOnDateChangeListener(new CalendarView.OnDateChangeListener() {

            @Override
            public void onSelectedDayChange(CalendarView arg0, int year, int month, int
date) {
                datedue = new Date();
            }
        });
    }

```

```

SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");
month++;

String day, mth;
mth = Integer.toString(month);
day = Integer.toString(date);

try {

    if (month < 10) {

        mth = "0"+Integer.toString(month);
    }
    if (date < 10) {

        day = "0"+Integer.toString(date);
    }
    datedue = fmt.parse(year + "-" + (mth) + "-" + day);

} catch (Exception e) {
}
}
});
}
}

```

Homework_class.java

```

package com.example.kushbanbah1.comsiia;

import android.content.Context;
import android.util.Log;
import java.util.ArrayList;
import java.util.Comparator;
import java.util.Date;
import java.util.Random;

public class Homework_class implements Comparator<Homework_class> {

    String Task;
    Date duedate;
    int Class_ID;
    int Homework_ID;

    public void makeID(ArrayList<Homework_class> lol)
    {
        Random rand = new Random();
        if(lol.size() == 0)
        {
            Homework_ID = 1;
        }
        else {
            boolean found;
            do {
                found = true;
                int test = rand.nextInt(1000) + 1;

                for (int c = 0; c < lol.size(); c++) {

                    if (test == lol.get(c).Homework_ID) {
                        found = false;
                        break;
                    }

                }

                if(found)
                {
                    Homework_ID = test;
                    break;
                }
            } while (true);
        }
    }

    public Homework_class findbyID(int id, Context c)

```

```

{
    utility util = new utility();
    Homework_class classfound = new Homework_class();
    ArrayList<Homework_class> list = util.ReadHW(c);
    for(int i = 0; i<list.size(); i++)
    {
        if(list.get(i).Homework_ID == id)
        {
            classfound = list.get(i);

            break;
        }
    }

    return classfound;

}

public Homework_class recentHW(Context c) {
    utility util = new utility();

    ArrayList<Homework_class> list_hw = util.ReadHW(c);
    long min = 1000;
    Date d = new Date();
    Homework_class finding = new Homework_class();

    for (int e = 0; e < list_hw.size(); e++) {
        final long days = Math.abs(list_hw.get(e).duedate.getTime() - d.getTime());
        long differenceDates = days / (24 * 60 * 60 * 1000);

        if (differenceDates < min && list_hw.get(e).duedate.after(d)) {
            min = differenceDates;
            finding = list_hw.get(e);
        }
    }
    return finding;
}

public int compare(Homework_class a, Homework_class b)
{
    return a.duedate.compareTo(b.duedate);
}

```

DayTaskView.java

```

package com.example.kushbanbah1.comsiia;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.graphics.Typeface;
import android.support.design.widget.FloatingActionButton;
import android.support.v4.widget.NestedScrollView;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
import android.widget.Space;
import android.widget.TextView;

import java.util.ArrayList;
import java.util.Random;

public class DayTaskView extends AppCompatActivity {

    LinearLayout layout;
    NestedScrollView scroll;
    ArrayList<Integer> ID = new ArrayList<Integer>();
    utility util = new utility();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_view_day_tasks);
        layout = findViewById(R.id.Holder);
        scroll = findViewById(R.id.scrollview);

        setup();
    }

    public void clicked(View v)
    {
        Intent opendaytasks = new Intent(this, AddEditDayTasks.class);
        startActivity(opendaytasks);
    }
    public void onResume() {
        super.onResume();
        setup();
    }

    }

    @SuppressWarnings("SetTextI18n")
    public void setup()
    {
        FloatingActionButton fab;
        fab = findViewById(R.id.fab);
        final Intent start = new Intent(this, HelpPage.class);
        start.putExtra("ID", 8);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

```

```

        startActivity(start);
    }
});

if((layout).getChildCount() > 0)
    (layout).removeAllViews();

ArrayList<Daytasks_class> list = util.ReadDayTask(getApplicationContext());
if(list!= null) {
    for (int i = 0; i < list.size(); i++) {

        LinearLayout layouti = new LinearLayout(getApplicationContext());
        layouti.setOrientation(LinearLayout.VERTICAL);
        TextView itemnew = new TextView(getApplicationContext());
        String label = "";
        if(list.get(i).hour<12 && list.get(i).hour != 0)
        {
            if(list.get(i).min >=10)
                label = "You have to do "+list.get(i).task+" at
"+list.get(i).hour+": "+Integer.toString(list.get(i).min)+"am";

            else
                label = "You have to do "+list.get(i).task+" at
"+list.get(i).hour+":0"+Integer.toString(list.get(i).min)+"am";
        }

        else if(list.get(i).hour>12)
        {
            if(list.get(i).min >=10)
                label = "You have to do "+list.get(i).task+" at "+(list.get(i).hour-
12)+": "+Integer.toString(list.get(i).min)+"pm";

            else
                label = "You have to do "+list.get(i).task+" at "+(list.get(i).hour-
12)+":0"+Integer.toString(list.get(i).min)+"pm";
        }
        else if(list.get(i).hour == 12)
        {
            if(list.get(i).min>=10)
                label = "You have to do "+list.get(i).task+" at
"+list.get(i).hour+": "+Integer.toString(list.get(i).min)+"pm";

            else
                label = "You have to do "+list.get(i).task+" at
"+list.get(i).hour+":0"+Integer.toString(list.get(i).min)+"pm";
        }
        else if (list.get(i).hour == 0)
        {
            if(list.get(i).min >=10)
                label = "You have to do "+list.get(i).task+" at
"+12+": "+Integer.toString(list.get(i).min)+"am";

            else
                label = "You have to do "+list.get(i).task+" at
"+12+":0"+Integer.toString(list.get(i).min)+"am";
        }
    }
}

```



```

itemnew.setText(label);
Button delete_but;
delete_but = new Button(getApplicationContext());
delete_but.setTag(list.get(i).ID);
delete_but.setText("Delete Day Task");
Random rand = new Random();

boolean found;
do {
    found = true;
    int test = rand.nextInt(1000) + 1;

    for (int c = 0; c < ID.size(); c++) {

        if (test == ID.get(c)) {
            found = false;
            break;
        }

    }

    if (found) {
        delete_but.setId(test);
        break;
    }
} while (true);

delete_but.setOnClickListener(new View.OnClickListener() {

    public void onClick(View v) {
        Daytasks_class classtest = new Daytasks_class();
        Button but = findViewById(v.getId());

delete(classtest.findclassbynameorid(Integer.parseInt(but.getTag().toString()),
getApplicationContext()));

    }

});

Button edit_but = new Button(getApplicationContext());

do {
    found = true;
    int test = rand.nextInt(1000) + 1;

    for (int c = 0; c < ID.size(); c++) {

        if (test == ID.get(c)) {
            found = false;
            break;

```

```

        }
    }

    if (found) {
        edit_but.setId(test);
        break;
    }
} while (true);
edit_but.setTag(list.get(i).ID+"");
edit_but.setText("Edit DayTask");

edit_but.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        Daytasks_class classtest = new Daytasks_class();
        Button but = findViewById(view.getId());
        Daytasks_class classfind =
classtest.findclassbynameorid(Integer.parseInt(but.getTag().toString()),
getApplicationContext());
        Intent openclass = new Intent(view.getContext(),
AddEditDayTasks.class);

        openclass.putExtra("ID", classfind.ID);
        startActivity(openclass);
    }
});

Typeface tfFutura = Typeface.create("casual",Typeface.NORMAL);
itemnew.setTypeface(tfFutura);
itemnew.setTextSize(20);
delete_but.setTypeface(tfFutura);
layouti.addView(itemnew);
layouti.addView(delete_but);
edit_but.setTypeface(tfFutura);
layouti.addView(edit_but);
Space space = new Space(getApplicationContext());
space.setMinimumHeight(40);
layouti.addView(space);
layout.addView(layouti);
}

//creates buttons and text labels dynamically and gives buttons unique IDs
since they are being created dynamically and thier listeners will otherwise not work
properly since .getID
//will not work properly. Displays all the day tasks stored by the user using
this dynamic system and lets them edit, add more or delete thier task
}
}

public void delete(Daytasks_class del)
{

    ArrayList<Daytasks_class> list = util.ReadDayTask(getApplicationContext());
    AlarmSetupDayTask cancel = new AlarmSetupDayTask();

```

```
cancel.deletealarm(getApplicationContext(), del.ID); //since alarms are created  
the moment the user creates the task, they have to be deleted as well
```

```
    for (int c = 0; c < list.size(); c++) {  
        if (list.get(c).ID == del.ID) {  
            list.remove(c);  
        }  
    }  
  
    util.SaveDayTask(list, getApplicationContext());  
  
    setup();  
}
```

AddEditDayTasks.java

```
package com.example.kushbanbah1.comsiia;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TimePicker;

import java.util.ArrayList;

public class AddEditDayTasks extends AppCompatActivity {

    TimePicker timepic;
    EditText taskcontainer;
    Button addday;
    boolean editing = false;
    RadioGroup todaytom;
    boolean today = true;
    Daytasks_class idtofind = new Daytasks_class();

    //manages add and edit day tasks functions
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_add_edit_daytask);
        timepic = findViewById(R.id.timepick);
        taskcontainer = findViewById(R.id.task_holder);
        addday = findViewById(R.id.set_button);
        todaytom = findViewById(R.id.today);
        todaytom.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(RadioGroup group, int checkedId) {

                int index =
group.indexOfChild(findViewById(group.getCheckedRadioButtonId())); //lets the user choose
if they want to set alarm for today or tom

                if(index == 0)
                {
                    today = true;
                }
                else
                {
                    today = false;
                }
            }
        });
    }
}
```

```

Intent editornot = getIntent();
int ID = editornot.getIntExtra("ID", 0);
if(ID != 0)
{
    setup(ID);
    editing = true;
    FloatingActionButton fab;
    fab = findViewById(R.id.fab);
    final Intent start = new Intent(this, HelpPage.class);
    start.putExtra("ID", 10);
    fab.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            startActivity(start);

        }
    });
}
else
{
    FloatingActionButton fab;
    fab = findViewById(R.id.fab);
    final Intent start = new Intent(this, HelpPage.class);
    start.putExtra("ID", 9);
    fab.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

            startActivity(start);

        }
    });
}

}

@SuppressLint("NewApi")
public void clicked(View v) //manages andd
{

    utility util = new utility();
    ArrayList<Daytasks_class> list = util.ReadDayTask(getApplicationContext());

    if(!editing)
    {
        Daytasks_class newobj = new Daytasks_class();

        newobj.hour = timepic.getHour();
        newobj.min = timepic.getMinute();
        newobj.today = this.today;
        newobj.task = taskcontainer.getText().toString();
        newobj.setID(list);
        list.add(newobj);
        util.SaveDayTask(list, getApplicationContext());

        AlarmSetupDayTask startal = new AlarmSetupDayTask();

```

```

        startal.setalarm(newobj, getApplicationContext());
    }
    else
    {

        idtofind.hour = timepic.getHour();
        idtofind.min = timepic.getMinute();
        idtofind.task = taskcontainer.getText().toString();
        idtofind.today = this.today;

        for(int i = 0; i < list.size(); i++)
        {
            if(list.get(i).ID == idtofind.ID)
            {

                list.remove(i);
                list.add(idtofind);

                break;
            }
        }
        util.SaveDayTask(list, getApplicationContext());
        AlarmSetupDayTask startal = new AlarmSetupDayTask();
        startal.deletealarm(getApplicationContext(), idtofind.ID);
        startal.setalarm(idtofind, getApplicationContext());
    }

    Intent opendaytasks = new Intent(this, DayTaskView.class);
    startActivity(opendaytasks);

}

public void setup(int id) //only runs if editdaytask instead of always
{

    idtofind = idtofind.findclassbynameorid(id, getApplicationContext());
    timepic.setHour(idtofind.hour);
    timepic.setMinute(idtofind.min);
    taskcontainer.setText(idtofind.task);
    addday.setText("Edit Day Task");
    RadioButton today = findViewById(R.id.radio_but);

    if(idtofind.today)
    {todaytom.check(R.id.radio_but);
    }
    else
    {
        todaytom.check(R.id.radio_but2);
    }

}

}

}

```

Daytasks_class.java

```

package com.example.kushbanbah1.comsiia;

import android.content.Context;

import java.util.ArrayList;
import java.util.Random;

public class Daytasks_class {

    int hour;
    int ID;
    int min;
    Boolean today;
    String task;

    public void setID(ArrayList<Daytasks_class> DTLIST) {
        Random rand = new Random();
        if (DTLIST.size() == 0) {
            ID = 1;
        } else {
            boolean found;
            do {
                found = true;
                int test = rand.nextInt(1000) + 1;

                for (int c = 0; c < DTLIST.size(); c++) {

                    if (test == DTLIST.get(c).ID) {
                        found = false;
                        break;
                    }

                }

                if (found) {
                    ID = test;
                    break;
                }
            } while (true);
        }
    }

    public Daytasks_class findclassbynameorid(String name, Context c) {
        utility util = new utility();
        Daytasks_class classfound = new Daytasks_class();
        ArrayList<Daytasks_class> list = util.ReadDayTask(c);
        for (int i = 0; i < list.size(); i++) {
            if (list.get(i).task.equals(name)) {
                classfound = list.get(i);
                break;
            }
        }
    }
}

```

```

        return classfound;

    }

    public Daytasks_class findclassbynameorid(int IDf, Context c) {
        utility util = new utility();
        Daytasks_class classfound = new Daytasks_class();
        ArrayList<Daytasks_class> list = util.ReadDayTask(c);
        for (int i = 0; i < list.size(); i++) {
            if (list.get(i).ID == IDf) {
                classfound = list.get(i);
                break;
            }
        }
        return classfound;
    }
}

//example of overloading- both methods acheive the same goal albiet with different
parameters of using those parameters to return a
}

```


utility.java

```

package com.example.kushbanbah1.comsiia;

import android.content.Context;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.text.SimpleDateFormat;
import java.util.ArrayList;

public class utility {

    File DayF, HomeworkF, SCF, ARF;

    public void setupclass(Context c)
    {
        DayF = new File(c.getFilesDir(), "DayTasks.txt");
        HomeworkF = new File(c.getFilesDir(), "Homework.txt");
        SCF = new File(c.getFilesDir(), "SchoolClasses.txt");
        ARF = new File(c.getFilesDir(), "AlarmReminder.txt");
    }

    public ArrayList<Homework_class> ReadHW(Context c) // Reads and returns homework class
    {
        setupclass(c);
        ArrayList<Homework_class> list = new ArrayList<Homework_class>();

        try {
            FileInputStream fis = new FileInputStream(HomeworkF);
            InputStreamReader test = new InputStreamReader(fis);
            BufferedReader br = new BufferedReader(test);
            String nextline = br.readLine();
            SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");

            if(!(nextline == null)) {
                do {
                    Homework_class newobj = new Homework_class();
                    newobj.Task = nextline;

                    newobj.duedate = fmt.parse(br.readLine());
                    newobj.Class_ID = Integer.parseInt(br.readLine());
                    newobj.Homework_ID = Integer.parseInt(br.readLine());
                    nextline = br.readLine();
                    list.add(newobj);
                } while (!(nextline == null));
            }

            br.close();
            test.close();
            fis.close();
        }
    }
}

```

```

    } catch (Exception e) {
        e.printStackTrace();
    }

    return list;
}

public void SaveHW(ArrayList<Homework_class> HWLIST, Context c)//recieves and writes a
homework task
{
    setupclass(c);
    SimpleDateFormat fmt = new SimpleDateFormat("yyyy-MM-dd");

    FileOutputStream outputStream;

    try {
        outputStream = c.openFileOutput("Homework.txt", Context.MODE_PRIVATE);
        for(int i = 0; i<HWLIST.size(); i++) {

            outputStream.write(HWLIST.get(i).Task.getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write((fmt.format(HWLIST.get(i).duedate).getBytes()));
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(HWLIST.get(i).Class_ID).getBytes());
            outputStream.write("\r\n".getBytes());

            outputStream.write(Integer.toString(HWLIST.get(i).Homework_ID).getBytes());
            outputStream.write("\r\n".getBytes());

        }
        outputStream.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}

public ArrayList<SchoolClass_class> ReadSchoolClass(Context c)// reads and returns a
school class list
{
    setupclass(c);
    ArrayList<SchoolClass_class> list = new ArrayList<SchoolClass_class>() ;
    try {

        FileInputStream fis = new FileInputStream(SCF);
        InputStreamReader test = new InputStreamReader(fis);
        BufferedReader br = new BufferedReader(test);
        String nextline = br.readLine();
        if(!(nextline == null)) {
            do {
                SchoolClass_class obj = new SchoolClass_class();
                obj.name = nextline;

                obj.ID = Integer.parseInt(br.readLine());
            } while (br.readLine() != null);
        }
    }
}

```

```

        obj.Day_0_1_2 = Integer.parseInt(br.readLine());

        obj.Block = Integer.parseInt(br.readLine());

        list.add(obj);
        nextline = br.readLine();

    } while (!(nextline == null));
}

br.close();
test.close();
fis.close();

} catch (IOException e) {
    e.printStackTrace();
}

return list;

}

public void SaveSchoolClass(ArrayList<SchoolClass_class> SCLIST,Context c) //recievcs
a school class list and writes it
{
    setupclass(c);

    FileOutputStream outputStream;

    try {
        outputStream = c.openFileOutput("SchoolClasses.txt", Context.MODE_PRIVATE);

        for(int i = 0; i<SCLIST.size(); i++)
        {
            outputStream.write(SCLIST.get(i).name.getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(SCLIST.get(i).ID).getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(SCLIST.get(i).Day_0_1_2).getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(SCLIST.get(i).Block).getBytes());
            outputStream.write("\r\n".getBytes());
        }

        outputStream.flush();
        outputStream.close();
    } catch (Exception e) {
        e.printStackTrace();
    }

}

public ArrayList<Daytasks_class> ReadDayTask(Context c)
{ setupclass(c);

```

```

ArrayList<Daytasks_class> list = new ArrayList<Daytasks_class>() ;
try {

    FileInputStream fis = new FileInputStream(DayF);
    InputStreamReader test = new InputStreamReader(fis);
    BufferedReader br = new BufferedReader(test);
    String nextline = br.readLine();
    if(!(nextline == null)) {
        do {
            Daytasks_class obj = new Daytasks_class();
            obj.task = nextline;

            obj.hour = Integer.parseInt(br.readLine());

            obj.min= Integer.parseInt(br.readLine());

            obj.ID = Integer.parseInt(br.readLine());
            obj.today = Boolean.parseBoolean(br.readLine());
            list.add(obj);
            nextline = br.readLine();

        } while (!(nextline == null));
    }

    br.close();
    test.close();
    fis.close();

} catch (IOException e) {
    e.printStackTrace();
}

return list;
}

public void SaveDayTask(ArrayList<Daytasks_class> DTLIST ,Context c)
{ setupclass(c);

    FileOutputStream outputStream;

    try {
        outputStream = c.openFileOutput("DayTasks.txt", Context.MODE_PRIVATE);

        for(int i = 0; i<DTLIST.size(); i++)
        {
            outputStream.write(DTLIST.get(i).task.getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(DTLIST.get(i).hour).getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(DTLIST.get(i).min).getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(Integer.toString(DTLIST.get(i).ID).getBytes());
            outputStream.write("\r\n".getBytes());
            outputStream.write(String.valueOf(DTLIST.get(i).today).getBytes());
            outputStream.write("\r\n".getBytes());
        }
    }
}

```

```

    }
    outputStream.flush();
    outputStream.close();
} catch (Exception e) {
    e.printStackTrace();
}
}

public SchoolClassAlarm ReadAlarmFile(Context c)
{
    setupclass(c);

    SchoolClassAlarm newobj = new SchoolClassAlarm();
    newobj.date= 0;
    newobj.day_1_2 = 1;
    newobj.enabled = true;
    try {
        FileInputStream fis = new FileInputStream(ARF);
        InputStreamReader test = new InputStreamReader(fis);
        BufferedReader br = new BufferedReader(test);
        String nextline = br.readLine();

        if(nextline != null) {
            newobj.date = Integer.parseInt(nextline);

            newobj.day_1_2 = Integer.parseInt(br.readLine());
            newobj.enabled = Boolean.parseBoolean(br.readLine());

        }
        br.close();
        test.close();
        fis.close();

    } catch (Exception e) {
        e.printStackTrace();
    }

    return newobj;
}

public void SaveAlarmFile(SchoolClassAlarm save, Context c) {
    setupclass(c);

    FileOutputStream outputStream;

    try {
        outputStream = c.openFileOutput("AlarmReminder.txt", Context.MODE_PRIVATE);

        outputStream.write(Integer.toString(save.date).getBytes());
        outputStream.write("\r\n".getBytes());
        outputStream.write(Integer.toString(save.day_1_2).getBytes());
        outputStream.write("\r\n".getBytes());
        outputStream.write(String.valueOf(save.enabled).getBytes());
        outputStream.write("\r\n".getBytes());
    }
}

```

```
        outputStream.flush();
        outputStream.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}
```

Time_Management.java

```
package com.example.kushbanbah1.comsiia;

public class Time_Management {

    private int[][] MT = new int[4][2];
    private int[][] Wed = new int[4][2];
    private int[][] Thur = new int[4][2];
    private int[][] Fri = new int[4][2];

    public void setup()
    {
        MT[0][0] = 9;
        MT[0][1] = 30;
        MT[1][0] = 11;
        MT[1][1] = 5;
        MT[2][0] = 12;
        MT[2][1] = 40;
        MT[3][0] = 14;
        MT[3][1] = 40;

        Wed[0][0] = 9;
        Wed[0][1] = 15;
        Wed[1][0] = 11;
        Wed[1][1] = 25;
        Wed[2][0] = 12;
        Wed[2][1] = 45;
        Wed[3][0] = 14;
        Wed[3][1] = 40;

        Thur[0][0] = 10;
        Thur[0][1] = 0;
        Thur[1][0] = 11;
        Thur[1][1] = 25;
        Thur[2][0] = 12;
        Thur[2][1] = 50;
        Thur[3][0] = 14;
        Thur[3][1] = 40;

        Fri[0][0] = 9;
        Fri[0][1] = 20;
        Fri[1][0] = 10;
        Fri[1][1] = 45;
        Fri[2][0] = 12;
        Fri[2][1] = 10;
        Fri[3][0] = 14;
        Fri[3][1] = 0;
    }

    public int[][] getMT()
    {
        setup();
        return MT;
    }
}
```

```
    public int[][] getWed()
    {
        setup();
        return Wed;
    }
    public int[][] getThur()
    {
        setup();
        return Thur;
    }
    public int[][] getFri()
    {
        setup();
        return Fri;
    }
}
```


SchoolClassAlarm.java

```
package com.example.kushbanbah1.comsiia;

public class SchoolClassAlarm {
    int date;
    int day_1_2;
    boolean enabled; //alarms enbaled or not

    //data structure used to store and use for daily alarm functions
}
```

NotificationSchoolClass.java

```

package com.example.kushbanbah1.comsiia;

import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.app.TaskStackBuilder;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.os.Build;
import android.os.Vibrator;
import android.support.v4.app.NotificationCompat;
import android.util.Log;
import android.widget.Toast;

import java.util.ArrayList;
import java.util.Random;

import static android.content.Context.NOTIFICATION_SERVICE;

public class NotificationSchoolClass extends BroadcastReceiver {

    @Override
    public void onReceive(Context context, Intent intent) {

        SchoolClass_class alarmclass = new SchoolClass_class();
        alarmclass = alarmclass.findclassbynameorid(intent.getIntExtra("ID", 0), context);
        if(alarmclass != null)
        {
            Toast.makeText(context, alarmclass.name, Toast.LENGTH_LONG).show();
            NotificationManager mgr = (NotificationManager)
context.getSystemService(NOTIFICATION_SERVICE);

            if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O &&
mgr.getNotificationChannel(alarmclass.name) == null)
            {
                mgr.createNotificationChannel(new NotificationChannel(alarmclass.name,
alarmclass.name, NotificationManager.IMPORTANCE_HIGH));
            }
            NotificationCompat.Builder builder;
            builder = new NotificationCompat.Builder(context, alarmclass.name)
                .setSmallIcon(R.drawable.ic_notifications_black_24dp)
                .setPriority(NotificationCompat.PRIORITY_MAX)
                .setContentTitle("Homework!")
                .setContentText("Enter " + alarmclass.name + "'s homework!")
                .setStyle( new NotificationCompat.BigTextStyle().bigText("Hey enter your
"+alarmclass.name+"'s Homework!!"))
                .setCategory(NotificationCompat.CATEGORY_MESSAGE);
            NotificationManager manager = (NotificationManager)
context.getSystemService(NOTIFICATION_SERVICE);

```

```
        Intent resultIntent = new Intent(context, AddEditHomework.class);
        TaskStackBuilder stackBuilder = TaskStackBuilder.create(context);
        stackBuilder.addNextIntentWithParentStack(resultIntent);
        Random rand = new Random();
        int test = rand.nextInt(1000) + 1;
        PendingIntent resultPendingIntent =
stackBuilder.getPendingIntent(alarmclass.ID+test, PendingIntent.FLAG_UPDATE_CURRENT);
        builder.setContentIntent(resultPendingIntent);

        manager.notify(alarmclass.ID, builder.build());
        Vibrator v = (Vibrator) context.getSystemService(Context.VIBRATOR_SERVICE);
        v.vibrate(1000*5);

    }
}

}
```

NotifDayTask.java

```
package com.example.kushbanbah1.comsiia;

import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.app.TaskStackBuilder;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.os.Build;
import android.os.Vibrator;
import android.support.v4.app.NotificationCompat;
import android.util.Log;
import android.widget.Toast;

import java.util.Random;

import static android.content.Context.NOTIFICATION_SERVICE;

public class NotifDayTask extends BroadcastReceiver {

    @Override
    public void onReceive(Context context, Intent intent) {
        Daytasks_class alarmclass = new Daytasks_class();
        alarmclass = alarmclass.findclassbynameorid(intent.getIntExtra("ID", 0), context);

        if(!(alarmclass.task == null)) {
            NotificationManager mgr = (NotificationManager)
context.getSystemService(NOTIFICATION_SERVICE);

            if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O &&
mgr.getNotificationChannel(alarmclass.task) == null) {
                mgr.createNotificationChannel(new NotificationChannel(alarmclass.task,
alarmclass.task, NotificationManager.IMPORTANCE_HIGH));
            }
            NotificationCompat.Builder builder;
            builder = new NotificationCompat.Builder(context, alarmclass.task)
                .setSmallIcon(R.drawable.ic_notifications_black_24dp)
                .setPriority(NotificationCompat.PRIORITY_MAX)
                .setContentTitle("DayTask!")
                .setContentText("Hey do " + alarmclass.task)
                .setStyle(new NotificationCompat.BigTextStyle().bigText("You need to
do " + alarmclass.task + " now!"))
                .setCategory(NotificationCompat.CATEGORY_MESSAGE);
            NotificationManager manager = (NotificationManager)
context.getSystemService(NOTIFICATION_SERVICE);

            Intent resultIntent = new Intent(context, DayTaskView.class);

            TaskStackBuilder stackBuilder = TaskStackBuilder.create(context);
            stackBuilder.addNextIntentWithParentStack(resultIntent);
            Random rand = new Random();
            int test = rand.nextInt(1000) + 1;
        }
    }
}
```

```
        PendingIntent resultPendingIntent =
stackBuilder.getPendingIntent(alarmclass.ID + test, PendingIntent.FLAG_UPDATE_CURRENT);
        builder.setContentIntent(resultPendingIntent);

        manager.notify(alarmclass.ID, builder.build());
        Vibrator v = (Vibrator) context.getSystemService(Context.VIBRATOR_SERVICE);
        v.vibrate(1000 * 5);
    }
}
```

HelpPage.java

```
package com.example.kushbanbah1.comsiia;

import android.app.TaskStackBuilder;
import android.content.Intent;
import android.support.v4.app.NavUtils;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.MenuItem;
import android.widget.TextView;

public class HelpPage extends AppCompatActivity {

    String[] helpinfo = new String[11];
    Intent launchintent;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_help_page);
        launchintent = getIntent();
        helpinfo[0] = "Welcome to the homepage!\nThere are a few things to do here:\nThe current day can be changed if it is incorrect!, it resets the alarms so you don't miss a beat!\nThe homework button leads to the homework menus so you can add, view or edit your homework and classes!\nThe day tasks button leads to the day tasks section of the app so you can add,view or edit your tasks!\nThe enable alarms option is used to disable alarms, use this for holidays!";
        helpinfo[1] = "Welcome to the homework menu!\nThe upcoming homework is your homework thats due next! it doesn't include homework due today though!\nThe manage homework button opens all your current homework anc lets you edit or add or delete it!\nThe manage classes button lets you view, edit, add or delete your classes!";
        helpinfo[2] = "Welcome to the manage your class view!\nYou can view all your classes here!, the edit and delete buttons delete or edit the class they're under!\nThe new class button opens the page to let you add more classes!";
        helpinfo[3] = "Welcome to add classes!\nThe class name is the name of the class and the list under it is the block and day! make to set that properly or else the alarms wont work!";
        helpinfo[4] = "Welcome to edit classes!\nIt works just like add class, pop in the new classname you want and change the time if you want!";
        helpinfo[5] = "Welcome to manage homework view\nHere is all your homework ordered from most recent to least!\nThe delete and edit buttons edit the homework above it!\nThe add homework button lets you add a new homework!";
        helpinfo[6] = "Welcome to add homework view!\nThe list above is all the class the homework belongs to, if there is nothing there that means you need to add a class!\nThe homework description is the actual homework details itself!\nThe due date is, just select it on the calender and hit add homework after you're done and your homework will be added!";
        helpinfo[7] = "Welcome to the edit your homework view!\nIt works just like add homework!, select your class, write your details and choose the date and it'll all be saved when you hit edit!";
        helpinfo[8] = "Welcome to Manage Daytasks!\nYou can see all your current day tasks!, delete them or edit! the delete and edit buttons affect the task above it!\nThe new day task button is if you want to make a new task!";
        helpinfo[9] = "Welcome to add day tasks view!\nThe clock is the time you want your alarm to go off\nThe Task is for you to put in the task details!\nThe button is to let you choose between today or tommrow! and just hit add day task when you're ready!";
```

```
        helpinfo[10] = "Welcome to edit day tasks view!\nThe page works just like add day  
tasks!\nJust set the time\nPut in the details\nAnd choose the day!, hit edit and it's all  
saved!";  
        generatetext();
```

```
    }
```

```
    public void generatetext()  
    {  
        TextView display = findViewById(R.id.dis);  
        display.setText(helpinfo[launchinent.getIntExtra("ID", -1)]);
```

```
    }
```

```
}
```

AlarmSetupSchoolClass.java

```
package com.example.kushbanbah1.comsiia;

import android.app.AlarmManager;
import android.app.PendingIntent;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;

import java.util.ArrayList;
import java.util.Calendar;

public class AlarmSetupSchoolClass extends BroadcastReceiver {

    utility util = new utility();
    Time_Management time = new Time_Management();
    AlarmManager[] alrmnger = new AlarmManager[4];
    PendingIntent[] pend_intents = new PendingIntent[4];

    Intent intent;

    Context c;

    @Override
    public void onReceive(Context context, Intent intent) {

        c = context;

        checkdaychanged();

    }

    public void checkdaychanged() {
        SchoolClassAlarm dateday = util.ReadAlarmFile(c);

        Calendar cal = Calendar.getInstance();

        int compare = cal.get(Calendar.DAY_OF_MONTH);
        int check = cal.get(Calendar.DAY_OF_WEEK);

        if ((check >= Calendar.MONDAY) && (check <= Calendar.FRIDAY)) {

            if (!(compare == dateday.date)) {

                dateday.date = compare;

                if (dateday.day_1_2 == 1) {
                    dateday.day_1_2 = 2;
                } else {
                    dateday.day_1_2 = 1;
                }

                util.SaveAlarmFile(dateday, c);
            }
        }
    }
}
```



```

        setupalarms();
    }

}

}

public void setupalarms() {

    for (int x = 0; x < alrmnger.length; x++) {

        if (alrmnger[x] != null) {
            alrmnger[x].cancel(pend_intents[x]);
            pend_intents[x].cancel();
        }

    }

    Calendar cal = Calendar.getInstance();
    int check = cal.get(Calendar.DAY_OF_WEEK);

    if ((check >= Calendar.MONDAY) && (check <= Calendar.FRIDAY)) {
        ArrayList<SchoolClass_class> list = util.ReadSchoolClass(c);
        SchoolClassAlarm daydate = util.ReadAlarmFile(c);

        for (int e = 0; e < list.size(); e++) {

            if (list.get(e).Day_0_1_2 == daydate.day_1_2) {

                switch (check) {
                    case 2: {

                        createalarm(list.get(e), time.getMT());
                        break;
                    }
                    case 3: {
                        createalarm(list.get(e), time.getMT());
                        break;
                    }
                    case 4: {
                        createalarm(list.get(e), time.getWed());
                        break;
                    }
                    case 5: {
                        createalarm(list.get(e), time.getThur());
                        break;
                    }
                    case 6: {
                        createalarm(list.get(e), time.getFri());
                        break;
                    }
                }
            }
        }
    }
}

```


AlarmSetupDayTask.java

```
package com.example.kushbanbah1.comsiia;

import android.app.AlarmManager;
import android.app.PendingIntent;
import android.content.Context;
import android.content.Intent;

import java.util.Calendar;
import java.util.Date;

public class AlarmSetupDayTask {

    private AlarmManager alrmmanager;
    private PendingIntent pendintent;
    public void setalarm(Daytasks_class alarm, Context c)
    {
        alrmmanager = (AlarmManager) c.getSystemService(Context.ALARM_SERVICE);

        Intent intent = new Intent();
        intent.setAction("DAYALARM");
        Calendar calendar = Calendar.getInstance();
        intent.putExtra("ID", alarm.ID);
        calendar.set(Calendar.HOUR_OF_DAY, alarm.hour);
        calendar.set(Calendar.MINUTE, alarm.min);

        if(!alarm.today) {

            calendar.add(Calendar.DAY_OF_MONTH, 1);
        }

        pendintent= PendingIntent.getBroadcast(c, alarm.ID , intent, 0);
        if(alarm.task != null)
        {alrmmanager.setExact(AlarmManager.RTC_WAKEUP, calendar.getTimeInMillis(),
pendintent);}

    }

    public void deletealarm(Context c, int ID)
    {
        if(alrmmanager!=null)
        {
            Intent intent = new Intent();
            pendintent= PendingIntent.getBroadcast(c, ID , intent, 0);
            alrmmanager.cancel(pendintent);
            pendintent.cancel();

        }

    }

}
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.kushbanbah1.comsiai">

    <uses-permission android:name="android.permission.VIBRATE" />

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="Welcome"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity
            android:name=".MainMenu"
            android:label="@string/app_name">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name=".ClassHomeworkMenu"
            android:label="Homework Menu"
            android:parentActivityName=".MainMenu" />
            <activity
                android:name=".HomeworkClassView"
                android:label="Homework"
                android:parentActivityName=".ClassHomeworkMenu" />
                <activity
                    android:name=".SchoolClassView"
                    android:label="Class"
                    android:parentActivityName=".ClassHomeworkMenu" />
                    <activity
                        android:name=".DayTaskView"
                        android:label="Day Tasks"
                        android:parentActivityName=".MainMenu" />
                        <activity
                            android:name=".AddEditHomework"
                            android:parentActivityName=".HomeworkClassView" />
                            <activity
                                android:name=".AddEditSchoolClass"
                                android:parentActivityName=".SchoolClassView" />

                                <receiver android:name=".AlarmSetupSchoolClass">
                                    <intent-filter>
                                        <action android:name="SETUPALRM" />
                                    </intent-filter>
                                </receiver>
                                <receiver android:name=".NotificationSchoolClass">
                                    <intent-filter>
                                        <action android:name="ALARM" />
                                    </intent-filter>
                                </receiver>

```

```
        <activity
            android:name=".AddEditDayTasks"
            android:label="Day Tasks"
            android:parentActivityName=".DayTaskView" />

        <receiver android:name=".NotifDayTask">
            <intent-filter>
                <action android:name="DAYALARM" />
            </intent-filter>
        </receiver>

        <activity android:name=".HelpPage" android:parentActivityName=".MainMenu"/>
    </application>

</manifest>
```

activity_add_edit_class.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".AddEditSchoolClass">

    <ImageView
        android:id="@+id/imageView7"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <ImageView
        android:id="@+id/imageView8"
        android:layout_width="match_parent"
        android:layout_height="104dp"
        android:layout_weight="1"

        android:background="#80B192"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <TextView
                android:id="@+id/textView2"
                android:layout_width="213dp"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Class Name:" />

            <EditText
                android:id="@+id/classname"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:ems="10"
                android:fontFamily="casual"
                android:inputType="textPersonName"
                tools:text="Name" />

        </LinearLayout>
    </LinearLayout>

```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <Spinner
        android:id="@+id/Days"
        android:fontFamily="casual"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1" />

</LinearLayout>

<Button
    android:id="@+id/add_but"
    android:layout_width="match_parent"
    android:layout_height="78dp"
    android:fontFamily="casual"
    android:onClick="addclass"
    android:text="Add Class"
    android:textSize="20dp"
    android:textStyle="bold"
    tools:layout_editor_absoluteY="511dp" />

</LinearLayout>
<android.support.design.widget.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="end|bottom"
    android:layout_margin="16dp"
    android:layout_marginBottom="16dp"
    android:layout_marginEnd="16dp"
    android:layout_weight="1"
    android:src="@android:drawable/ic_menu_help"
    app:backgroundTint="?android:attr/colorAccent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />
</android.support.constraint.ConstraintLayout>

```

activity_add_edit_daytask.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".AddEditDayTasks">

    <ImageView
        android:id="@+id/imageView10"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp">

        <TimePicker
            android:id="@+id/timepick"
            android:layout_width="match_parent"
            android:layout_height="344dp"
            android:layout_above="@+id/set_button"
            android:layout_centerHorizontal="true"
            android:layout_marginBottom="24dp"
            android:fontFamily="casual" />

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <TextView
                android:id="@+id/textview"
                android:layout_width="173dp"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:fontFamily="casual"
                android:text="Task:" />

            <EditText
                android:id="@+id/task_holder"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:ems="10"
                android:fontFamily="casual"
                android:inputType="textPersonName" />

```



```

</LinearLayout>

<RadioGroup
    android:id="@+id/today"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:orientation="horizontal">

    <RadioButton
        android:id="@+id/radio_but"
        android:layout_width="wrap_content"
        android:layout_height="33dp"
        android:layout_weight="1"
        android:checked="true"
        android:fontFamily="casual"
        android:text="Today" />

    <RadioButton
        android:id="@+id/radio_but2"
        android:layout_width="wrap_content"
        android:layout_height="33dp"
        android:layout_weight="1"
        android:fontFamily="casual"
        android:text="Tomorrow" />

</RadioGroup>

<Button
    android:id="@+id/set_button"
    android:layout_width="match_parent"
    android:layout_height="33dp"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:layout_weight="1"
    android:fontFamily="casual"
    android:onClick="clicked"
    android:text="Add Day Task"
    android:textSize="20dp"
    android:textStyle="bold"
    tools:layout_editor_absoluteX="158dp"
    tools:layout_editor_absoluteY="403dp" />

<Space
    android:layout_width="match_parent"
    android:layout_height="50dp" />
</LinearLayout>
<android.support.design.widget.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="end|bottom"
    android:layout_margin="16dp"
    android:layout_marginBottom="16dp"
    android:layout_marginEnd="16dp"
    android:layout_weight="1"
    android:src="@android:drawable/ic_menu_help"

```

```
    app:backgroundTint="?android:attr/colorAccent"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent" />  
  
</android.support.constraint.ConstraintLayout>
```

activity_add_edit_homework.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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:id="@+id/idk"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".AddEditHomework">

    <ImageView
        android:id="@+id/imageView5"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <ImageView
        android:id="@+id/imageView6"
        android:layout_width="match_parent"
        android:layout_height="118dp"
        android:layout_weight="1"

        android:background="#80B192"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <Spinner
            android:id="@+id/spinner"
            android:layout_width="match_parent"
            android:fontFamily="casual"
            android:layout_height="wrap_content" />

        <LinearLayout
            android:id="@+id/id"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <TextView
                android:id="@+id/textView4"
                android:layout_width="236dp"
                android:fontFamily="casual"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Homework Desc." />

            <EditText

```

```

        android:id="@+id/Edit"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:ems="10"
        android:fontFamily="casual"
        android:inputType="text|textMultiline"
        tools:text="Description" />

</LinearLayout>

<TextView
    android:id="@+id/textView6"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:fontFamily="casual"
    android:text="Due Date:" />

<CalendarView
    android:id="@+id/duedate"
    android:fontFamily="casual"
    android:layout_width="match_parent"
    android:layout_height="315dp" />

<Button
    android:id="@+id/Add_HW"
    android:layout_width="match_parent"
    android:layout_height="76dp"
    android:fontFamily="casual"
    android:onClick="clicked"
    android:text="Add Homework"
    android:textStyle="bold"
    android:textSize="20dp"
    tools:layout_editor_absoluteX="147dp"
    tools:layout_editor_absoluteY="300dp" />
</LinearLayout>
<android.support.design.widget.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="end|bottom"
    android:layout_margin="16dp"
    android:layout_marginBottom="16dp"
    android:layout_marginEnd="16dp"
    android:layout_weight="1"
    android:src="@android:drawable/ic_menu_help"
    app:backgroundTint="?android:attr/colorAccent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />
</android.support.constraint.ConstraintLayout>

```

activity_help_page.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".HelpPage">

    <ImageView
        android:id="@+id/imageView12"
        android:layout_width="500dp"
        android:layout_height="2000dp"
        app:srcCompat="@color/Background"
        tools:layout_editor_absoluteY="-12dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <Space
            android:layout_width="match_parent"
            android:layout_height="63dp" />

        <TextView
            android:id="@+id/dis"
            android:layout_width="match_parent"
            android:layout_height="502dp"
            android:fontFamily="casual"
            android:textAlignment="center"
            android:textSize="20dp" />
    </LinearLayout>

</android.support.constraint.ConstraintLayout>

```

activity_main_menu.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".MainMenu">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <ImageView
        android:id="@+id/imageView2"
        android:layout_width="match_parent"
        android:layout_height="74dp"
        android:layout_weight="1"

        android:background="#80B192"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="40dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="61dp"
            android:layout_marginBottom="100dp"
            android:orientation="horizontal">

            <TextView
                android:id="@+id/textView"
                android:layout_width="195dp"
                android:layout_height="49dp"
                android:layout_alignParentTop="true"
                android:layout_weight="1"
                android:fontFamily="casual"
                android:text="Today is Day:"
                android:textAlignment="center"
                android:textSize="30sp"
                tools:layout_editor_absoluteX="106dp"
                tools:layout_editor_absoluteY="0dp" />

```

```

<EditText
    android:id="@+id/day_enterer"
    android:layout_width="47dp"
    android:layout_height="match_parent"
    android:layout_alignTop="@+id/textView"
    android:layout_weight="1"
    android:ems="10"
    android:fontFamily="casual"
    android:inputType="number"
    android:maxLength="1"
    android:singleLine="true"
    android:text="1"
    android:textSize="30sp"
    android:textStyle="bold"
    tools:layout_editor_absoluteX="106dp"
    tools:layout_editor_absoluteY="0dp" />

<Space
    android:layout_width="112dp"
    android:layout_height="45dp"
    android:layout_weight="1" />

</LinearLayout>

<Button
    android:id="@+id/button2"
    android:layout_width="match_parent"
    android:layout_height="111dp"

    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:alpha="50"
    android:fontFamily="casual"
    android:onClick="OpenHWClass"
    android:text="Homework"
    android:textAppearance="@style/TextAppearance.AppCompat"
    android:textSize="30sp"
    android:textStyle="bold"
    android:typeface="monospace"
    tools:layout_editor_absoluteX="35dp"
    tools:layout_editor_absoluteY="128dp" />

<Button
    android:id="@+id/button"
    android:layout_width="match_parent"
    android:layout_height="111dp"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:fontFamily="casual"
    android:onClick="OpenDayTasks"

    android:text="Day Task"
    android:textAppearance="@style/TextAppearance.AppCompat"
    android:textSize="30sp"
    android:textStyle="bold"
    android:typeface="monospace"
    tools:layout_editor_absoluteX="35dp"

```

```

        tools:layout_editor_absoluteY="314dp" />

<Space
    android:layout_width="match_parent"
    android:layout_height="33dp" />

<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:orientation="horizontal">

    <CheckBox
        android:id="@+id/radio_but"
        android:layout_width="195dp"
        android:layout_height="60dp"
        android:layout_weight="1"
        android:checked="true"
        android:fontFamily="casual"
        android:text="Enable Alarms"
        android:textSize="15sp" />

    <Space
        android:layout_width="101dp"
        android:layout_height="match_parent"
        android:layout_weight="1" />

</LinearLayout>

</LinearLayout>

<android.support.design.widget.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="end|bottom"
    android:layout_margin="16dp"
    android:layout_marginBottom="16dp"
    android:layout_marginEnd="16dp"
    android:layout_weight="1"
    android:src="@android:drawable/ic_menu_help"
    app:backgroundTint="?android:attr/colorAccent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />

</android.support.constraint.ConstraintLayout>

```


activity_menu_classhomework.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".Homework"
    tools:layout_editor_absoluteY="81dp">

    <ImageView
        android:id="@+id/imageView3"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <TextView
            android:id="@+id/up_hw"
            android:layout_width="match_parent"
            android:layout_height="96dp"
            android:background="#80B192"
            android:fontFamily="casual"
            android:text="Upcoming Homework"
            android:textAlignment="center"
            android:textColor="@android:color/black"
            android:textSize="24sp"

            />

        <Space
            android:layout_width="match_parent"
            android:layout_height="30dp" />

        <Button
            android:id="@+id/button13"
            android:layout_width="match_parent"
            android:layout_height="111dp"

            android:layout_alignParentTop="true"
            android:layout_centerHorizontal="true"
            android:alpha="50"
            android:fontFamily="casual"
            android:onClick="manageHW"
            android:text="Manage Homework"
            android:textAppearance="@style/TextAppearance.AppCompat"
            android:textSize="30sp"

```

```

        android:textStyle="bold"
        android:typeface="monospace"
        tools:layout_editor_absoluteX="35dp"
        tools:layout_editor_absoluteY="128dp" />

<Space
    android:layout_width="match_parent"
    android:layout_height="30dp" />

<Button
    android:id="@+id/button14"
    android:layout_width="match_parent"
    android:layout_height="111dp"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:fontFamily="casual"
    android:onClick="manageClass"

    android:text="Manage Classes"
    android:textAppearance="@style/TextAppearance.AppCompat"
    android:textSize="30sp"
    android:textStyle="bold"
    android:typeface="monospace"
    tools:layout_editor_absoluteX="35dp"
    tools:layout_editor_absoluteY="314dp" />

</LinearLayout>
<android.support.design.widget.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="end|bottom"
    android:layout_margin="16dp"
    android:layout_marginBottom="16dp"
    android:layout_marginEnd="16dp"
    android:layout_weight="1"
    android:src="@android:drawable/ic_menu_help"
    app:backgroundTint="?android:attr/colorAccent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />
</android.support.constraint.ConstraintLayout>

```

activity_view_class.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".SchoolClassView">

    <ImageView
        android:id="@+id/imageView9"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <Button
            android:id="@+id/button8"
            android:layout_width="match_parent"
            android:layout_height="170dp"
            android:layout_weight="1"
            android:onClick="clicked"
            android:fontFamily="casual"
            android:textSize="20dp"
            android:text="New class"
            tools:layout_editor_absoluteX="116dp"
            tools:layout_editor_absoluteY="66dp" />

        <android.support.v4.widget.NestedScrollView
            android:id="@+id/scrollview"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_weight="1"
            android:fillViewport="true"
            tools:layout_editor_absoluteX="8dp"
            tools:layout_editor_absoluteY="122dp">

            <LinearLayout
                android:id="@+id/Holder"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical" />
        </android.support.v4.widget.NestedScrollView>
    </LinearLayout>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```
    android:layout_gravity="end|bottom"
    android:layout_margin="16dp"
    android:layout_marginBottom="16dp"
    android:layout_marginEnd="16dp"
    android:layout_weight="1"
    android:src="@android:drawable/ic_menu_help"
    app:backgroundTint="?android:attr/colorAccent"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent" />
</android.support.constraint.ConstraintLayout>
```

activity_view_day_tasks.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".DayTaskView">

    <ImageView
        android:id="@+id/imageView11"
        android:layout_width="match_parent"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="0dp" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <Button
            android:id="@+id/button8"
            android:layout_width="match_parent"
            android:layout_height="143dp"
            android:layout_weight="1"
            android:fontFamily="casual"
            android:onClick="clicked"
            android:textSize="20dp"
            android:text="New day Task"
            tools:layout_editor_absoluteX="116dp"
            tools:layout_editor_absoluteY="66dp" />

        <android.support.v4.widget.NestedScrollView
            android:id="@+id/scrollview"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_weight="1"
            android:fillViewport="true"
            tools:layout_editor_absoluteX="8dp"
            tools:layout_editor_absoluteY="122dp">

            <LinearLayout
                android:id="@+id/Holder"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical" />
        </android.support.v4.widget.NestedScrollView>
    </LinearLayout>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```
android:layout_gravity="end|bottom"
android:layout_margin="16dp"
android:layout_marginBottom="16dp"
android:layout_marginEnd="16dp"
android:layout_weight="1"
android:src="@android:drawable/ic_menu_help"
app:backgroundTint="?android:attr/colorAccent"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent" />
```

```
</android.support.constraint.ConstraintLayout>
```

activity_view_homework.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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=".HomeworkClassView">

    <ImageView
        android:id="@+id/imageView4"
        android:layout_width="0dp"
        android:layout_height="1000dp"
        android:layout_weight="1"

        android:background="@color/Background"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="@+id/linearLayout" />

    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:orientation="vertical"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">

            <Button
                android:id="@+id/button6"
                android:layout_width="match_parent"
                android:layout_height="72dp"
                android:layout_weight="1"
                android:fontFamily="casual"
                android:onClick="NewHW"
                android:text="Add Homework"

                android:textSize="20dp"
                tools:layout_editor_absoluteX="43dp"
                tools:layout_editor_absoluteY="48dp" />

        </LinearLayout>

    <android.support.v4.widget.NestedScrollView
        android:id="@+id/scrollview"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:fillViewport="true"
        android:fontFamily="casual">

```

```

        <LinearLayout
            android:id="@+id/holder"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:fontFamily="casual"
            android:orientation="vertical">

            </LinearLayout>
        </android.support.v4.widget.NestedScrollView>

    </LinearLayout>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="end|bottom"
        android:layout_margin="16dp"
        android:layout_marginBottom="16dp"
        android:layout_marginEnd="16dp"
        android:layout_weight="1"
        android:src="@android:drawable/ic_menu_help"
        app:backgroundTint="?android:attr/colorAccent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent" />

</android.support.constraint.ConstraintLayout>

```