#1
```
function getMyCalendars(){
  const cals = CalendarApp.getAllCalendars();
  //Logger.log(cals);
  const today = new Date();
  cals.forEach((myCal)=>{
    const myName = {
      name: myCal.getName(),
      id:myCal.getId(),
      color :myCal.getColor(),
      val:myCal.getEventsForDay(today)
      };
    Logger.log(myName);
    Logger.log(myName.val.length);
  })
  }
```

#2
```
function getSomeCals(){
  const cals0 = CalendarApp.getAllCalendars();
  cals0.forEach((cal)=>{
    Logger.log(cal.getId());
  })
  const cals1 = CalendarApp.getAllOwnedCalendars();
  cals1.forEach((cal)=>{
    Logger.log(cal.getName());
  })
  Logger.log('*****NAME*****');
  const cals2 = CalendarApp.getCalendarsByName('test');
  cals2.forEach((cal)=>{
    Logger.log(cal.getName());
  })
  const calId = CalendarApp.getDefaultCalendar().getId();
  Logger.log(calId);
   const id = '662194ndtkusm80ivl71ql0rvc@group.calendar.google.com';
  const cal1 = CalendarApp.getCalendarById(id);
  Logger.log(cal1.getName());

 }
```

#3
```
https://developers.google.com/apps-script/reference/calendar/color.html
```

```
function makeCal(){
 const cal = CalendarApp.createCalendar('New Calendar Today');
 Logger.log(cal.getId());
 cal.setColor('#00ff00');
 cal.setDescription('this is a test calendar');
 cal.setName('Updated Name');
}

function updateCal(){
 const id = '6aq9ielvkjb2o1m56gkfnngd7o@group.calendar.google.com';
 const cal = CalendarApp.getCalendarById(id);
 Logger.log(cal.getDescription());
 Logger.log(cal.getColor());
 cal.setColor('#AB8B00');
 cal.setHidden(false);
}

function delCal(){
 const id = '6aq9ielvkjb2o1m56gkfnngd7o@group.calendar.google.com';
 const cal = CalendarApp.getCalendarById(id);
 cal.deleteCalendar();

}
```

#4
```
function getMyEvents(){
   const cal = CalendarApp.getDefaultCalendar();
   Logger.log(cal.getName());
   const start = new Date();
   const end = new Date(start.getTime() + (1000*60*60*24*7));
   Logger.log(start.getTime());
   const events = cal.getEvents(start,end);
   events.forEach((event)=>{
     Logger.log(event.getTitle());
     event.setColor("3");
     Logger.log(event.getId());
   })
 }
  function updateEvent(){
   const id = '4mv0mgb8kobpmensaukrs5fh5j@google.com';
   const event = CalendarApp.getEventById(id);
   event.setGuestsCanModify(true); //Guest permissions
   event.setDescription('new description');
```

```
    event.setLocation('My Home');
    //event.setMyStatus(CalendarApp.GuestStatus.NO);
    event.setVisibility(CalendarApp.Visibility.PUBLIC);
    event.setTag('test','yes');
}
```

#5

```
function makeEvents3(){
    const cal = CalendarApp.getDefaultCalendar();
    const today = new Date();
    const futureDate = new Date(today.getTime() + (1000*60*60*24*4));
    const endDate = new Date(today.getTime() + (1000*60*60*24*4)+(1000*60*60*2));
    const opts = {
        location : 'MY HOME',
        guests : 'education2learning+1@gmail.com',
        description : 'The party',
        sendInvites: true
    }
    const rec = CalendarApp.newRecurrence().addWeeklyRule();
    const event1 = cal.createAllDayEventSeries('Weekly Meet',today,rec);
    const event2 = cal.createEventSeries('Series Weekly',futureDate,endDate,rec);
    const event3 = cal.createEventSeries('Series Weekly',futureDate,endDate,rec,opts);
}

function makeEvents2(){
    const cal = CalendarApp.getDefaultCalendar();
    const today = new Date();
    const futureDate = new Date(today.getTime() + (1000*60*60*24*2));
    const endDate = new Date(today.getTime() + (1000*60*60*24*4)+(1000*60*60*6));
    const opts = {
        location : 'MY HOME',
        guests : 'education2learning+1@gmail.com',
        description : 'The party',
        sendInvites: true
    }
    const event1 = cal.createEvent('My Next Test 2',futureDate,endDate)
    event1.setColor('2');
    const event2 = cal.createEvent('With Options',futureDate,endDate,opts);
    event2.addGuest('education2learning+2@gmail.com');
}

function makeEvents(){
    const cal = CalendarApp.getDefaultCalendar();
```

```
    //cal.createEventFromDescription('test 1, Monday at 4pm');
    const today = new Date();
    const futureDate = new Date(today.getTime() + (1000*60*60*24*4));
    const endDate = new Date(today.getTime() + (1000*60*60*24*5));
    //const event1 = cal.createAllDayEvent('title',futureDate);
    //event1.setColor("6");
    //const event2 = cal.createAllDayEvent('One big event WEEK',today,futureDate);
    //event2.setDescription('Wow that was a long event');
    const opts = {
      location : 'MY HOME',
      guests : 'education2learning@gmail.com',
      description : 'The party',
      sendInvites: true
    }
    const event3 = cal.createAllDayEvent('New Party',futureDate,endDate,opts);
    Logger.log(event3);
}
```

#6

```
function delEvents(){
    const cal = CalendarApp.getDefaultCalendar();
    const today = new Date();
    const day = 1000*60*60*24;
    const endDate = new Date(today.getTime() + (day*365));
    const events = cal.getEvents(today,endDate);
    Logger.log(events.length);
    events.forEach((event)=>{
      Logger.log(event);
      event.deleteEvent();
    })
}
```

#7

```
function addMyEvent(){
    const cal = CalendarApp.getDefaultCalendar();
    const today = new Date();
    const myDay = 1000*60*60*24*3;
    const start = new Date(today.getTime() + myDay + (1000*60*60*5));
    const end = new Date(today.getTime() + myDay + (1000*60*60*8));
    const event = cal.createEvent('TEST my Event',start,end);
    event.addGuest('gappscourses+1@gmail.com');
    event.addGuest('gappscourses+2@gmail.com');
```

```
    event.addGuest('gappscourses+3@gmail.com');
}
function myGuests(){
  const cal = CalendarApp.getDefaultCalendar();
    const today = new Date();
  const myDay = 1000*60*60*24*3;
  const start = new Date(today.getTime() + myDay + (1000*60*60*5));
  const events = cal.getEventsForDay(start);
  events.forEach((event)=>{
    let removeEmail = '';
    let guests = event.getGuestList();
    Logger.log(guests);
    guests.forEach((guest)=>{
      removeEmail = guest.getEmail();
      let person = {
      email : guest.getEmail(),
      status : guest.getStatus(),
      gstatus : guest.getGuestStatus(),
      name:guest.getName(),
      addGuest:guest.getAdditionalGuests()
      }
      Logger.log(person);
    })
    event.removeGuest(removeEmail);
  })
  //Logger.log(events);
}
```

#8
```
function makeaSheet(){
  const ss = SpreadsheetApp.create('New Cals');
  const sheet = ss.insertSheet();
  sheet.setName('cals');
  sheet.appendRow(['Start Time','End Time','ID','Title','Description']);
  const cal = CalendarApp.getDefaultCalendar();
  const today = new Date();
  const day = 1000*60*60*24;
  const end = new Date(today.getTime()+ (day*30));
  const events = cal.getEvents(today,end);
  Logger.log(events.length);
  events.forEach((event)=>{
    const arr = [];
```

```javascript
      arr.push(event.getStartTime());
      arr.push(event.getEndTime());
      arr.push(event.getId());
      arr.push(event.getTitle());
      arr.push(event.getDescription());
      sheet.appendRow(arr);
  })
}
function addRandomCals(){
  const cal = CalendarApp.getDefaultCalendar();
  const today = new Date();
  const day = 1000*60*60*24;
  for(let i=0;i<25;i++){
    const randomDay = Math.floor(Math.random()*30);
    const start = new Date(today.getTime()+ (randomDay*day));
    const title = 'My Event #'+i;
    const event = cal.createAllDayEvent(title,start);
  }
}
```