

TUGAS PROJEK



DESKRIPSI PROGRAM

Program ini merupakan aplikasi sederhana berbasis teks yang ditulis dalam bahasa assembly menggunakan platform EMU8086.

Program bertujuan untuk menampilkan jadwal mata kuliah berdasarkan input hari yang diberikan oleh pengguna.



A vibrant illustration of five students of diverse ethnicities and styles cheering and jumping joyfully on a bed of white clouds against a bright blue sky. One student in the foreground wears a yellow shirt and blue pants, another wears a blue dress, and others are in various casual attire. They all have their arms raised in excitement.

TUJUAN PROGRAM

Menampilkan jadwal mata kuliah kepada pengguna berdasarkan hari yang dipilih oleh pengguna.

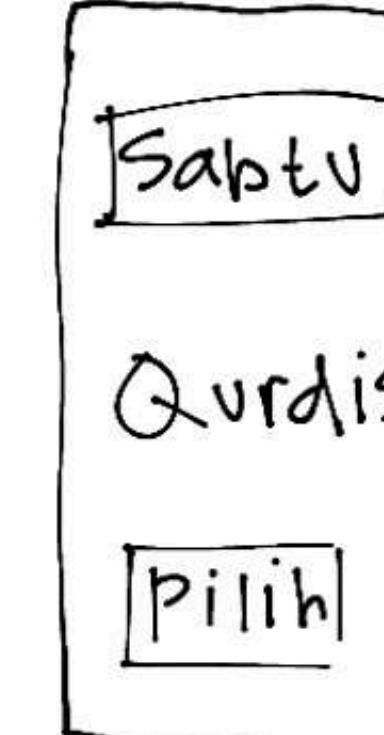
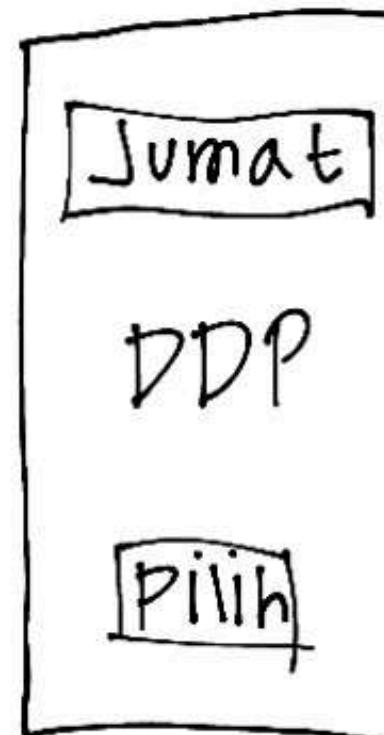
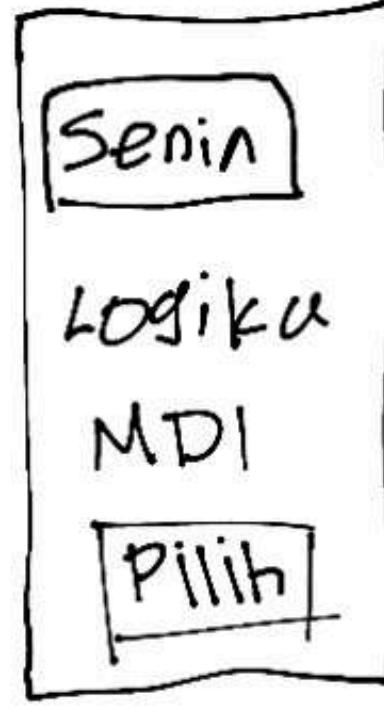
Memberikan pengalaman interaktif dengan pengguna melalui input Nama, NIM, dan Kelas pada program.

FITUR PROGRAM

Berikut beberapa fitur program
Jadwal Mata Kuliah :

- 1 Selamat Datang
- 2 Input Data Pribadi
- 3 Tampilan Jadwal
- 4 Validasi Jadwal
- 5 Informasi Program

SKETSA RANCANGAN



ALUR PROGRAM

Bagian Awal

Menampilkan
Tabel Jadwal

Proses
Input Hari

Menampilkan
Detail Jadwal



HASIL EKSEKUSI PROGRAM

Setelah Program dijalankan, hasilnya sebagai berikut :

1

**Ucapan “Selamat Datang
di Jadwal Mata Kulliah”**

2

**Masukkan Nama, NIM,
dan Kelas**

3

**Tampilkan tabel jadwal,
masukkan nomor hari**

4

**Tampilkan jadwal yang
diinputkan**



KODE PROGRAM

```
model small
.code
org 100h

start:
jmp mulai

welcome      db 13,10,'        Selamat Datang di Jadwal Mata Kuliah $'
nama         db 13,10,'        Nama : $'
nim          db 13,10,'        NIM : $'
kelas         db 13,10,'        Kelas : $'
masukkan     db 13,10,'        Masukkan Nomor Jadwal Mata Kuliah: $'
tampung_nama db 30,?,30 dup(?)
tampung_nim  db 30,?,30 dup(?)
tampung_hai   db 30,?,30 dup(?)
tampung_kelas db 30,?,30 dup(?)

jadwal db 13,10,' +-----+'
db 13,10,' |***          JADWAL MATA KULIAH          ***|'
db 13,10,' +-----+'
db 13,10,' |           NO          HARI          NO          HARI|'
db 13,10,' |-----+-----+-----+-----+'
db 13,10,' |       1.          SENIN          5.          JUMAT|'
db 13,10,' |-----+-----+-----+-----+'
db 13,10,' |       2.          SELASA          6.          SABTU|'
db 13,10,' |-----+-----+-----+-----+'
db 13,10,' |       3.          RABU           7.          MINGGU|'
db 13,10,' |-----+-----+-----+-----+'
db 13,10,' |       4.          KAMIS          |'
db 13,10,' |-----+-----+-----+-----+'
db 13,10,' +-----+$'
```

Kode

```
mulai:  
    mov ah,09h  
    lea dx,welcome  
    int 21h  
    mov ah,0ah  
    lea dx,tampung_hai  
    int 21h  
    push dx  
  
    mov ah,09h  
    lea dx,nama  
    int 21h  
    mov ah,0ah  
    lea dx,tampung_nama  
    int 21h  
    push dx  
  
    mov ah,09h  
    lea dx,nim  
    int 21h  
    mov ah,0ah  
    lea dx,tampung_nim  
    int 21h  
    push dx  
  
    mov ah,09h  
    lea dx,kelas  
    int 21h  
    mov ah,0ah  
    lea dx,tampung_kelas  
    int 21h  
    push dx  
  
    mov ah,09h  
    mov dx,offset jadwal  
    int 21h  
    mov ah,09h  
    jmp proses  
    jne error_msg  
  
error_msg:  
    mov ah,09h  
    mov dx,offset error_msg  
    int 21h  
    int 20h
```

```
proses:  
    mov ah,09h  
    mov dx,offset masukkan  
    int 21h  
    mov ah,01  
    int 21h  
    mov bh,al  
  
    cmp al,'1'  
    je hasil1  
  
    cmp al,'2'  
    je hasil2  
  
    cmp al,'3'  
    je hasil3  
  
    cmp al,'4'  
    je hasil4  
  
    cmp al,'5'  
    je hasil5  
  
    cmp al,'6'  
    je hasil6  
  
    cmp al,'7'  
    je hasil7  
  
hasil1:  
    mov ah,09h  
    lea dx,hari1  
    int 21h  
    int 20h  
hasil2:  
    mov ah,09h  
    lea dx,hari2  
    int 21h  
    int 20h  
hasil3:  
    mov ah,09h  
    lea dx,hari3  
    int 21h  
    int 20h  
hasil4:  
    mov ah,09h  
    lea dx,hari4  
    int 21h  
    int 20h
```

Program



KODE PROGRAM

```
hasil5:  
    mov ah,09h  
    lea dx,hari5  
    int 21h  
    int 20h  
hasil6:  
    mov ah,09h  
    lea dx,hari6  
    int 21h  
    int 20h  
hasil7:  
    mov ah,09h  
    lea dx,hari7  
    int 21h  
    int 20h  
; ======  
  
hari1 db 13,10,'  
db 13,10,' +=====+'  
db 13,10,' | Senin  
db 13,10,' | -----'  
db 13,10,' | Logika Informatika  
db 13,10,' | Dosen : Jihad Rahmawan, S.T., M.Sc  
db 13,10,' | Jam : 10:30 - 12:10  
db 13,10,' | Ruangan : 4.1.5.71  
db 13,10,' |  
db 13,10,' | Manajemen Data dan Informasi  
db 13,10,' | Dosen : Ninda Khoirunnisa, S.T., M.Sc  
db 13,10,' | Jam : 12:30 - 15:05  
db 13,10,' | Ruangan : 4.1.7.79  
db 13,10,' +=====+$'  
  
hari2 db 13,10,'  
db 13,10,' +=====+'  
db 13,10,' | Selasa  
db 13,10,' | -----'  
db 13,10,' | Kalkulus Informatika  
db 13,10,' | Dosen : Andri Pranolo, S.Kom., M.Cs., Ph.D.  
db 13,10,' | Jam : 12:30 - 15:05  
db 13,10,' | Ruangan : 4.1.5.71  
db 13,10,' +=====+$'
```



Kode Program

```
hari3 db 13,10,"  
db 13,10,"+=====+  
db 13,10,| Rabu  
db 13,10,-+-----+  
db 13,10,| Dasar Sistem Komputer  
db 13,10,| Dosen : Ali Tarmuji, S.T., M.Cs.  
db 13,10,| Jam : 07:00 - 08:40  
db 13,10,| Ruangan : 4.1.4.49  
db 13,10,"=====+$'  
  
hari4 db 13,10,"  
db 13,10,"+=====+  
db 13,10,| Kamis  
db 13,10,-+-----+  
db 13,10,| Pancasila  
db 13,10,| Dosen : Dr. Sobirin, S.H., M.Hum.  
db 13,10,| Jam : 08:45 - 10:25  
db 13,10,| Ruangan : Daring  
db 13,10,"=====+$'  
  
hari5 db 13,10,"  
db 13,10,"+=====+  
db 13,10,| Jumat  
db 13,10,-+-----+  
db 13,10,| Dasar Pemrograman  
db 13,10,| Dosen : Bambang Robiin, S.T., M.T.  
db 13,10,| Jam : 12:30 - 15:05  
db 13,10,| Ruangan : 4.1.8.82  
db 13,10,"=====+$'  
  
hari6 db 13,10,"  
db 13,10,"+=====+  
db 13,10,| Sabtu  
db 13,10,-+-----+  
db 13,10,| Al-Quran dan Hadits  
db 13,10,| Dosen : Muh Fatkul Mubin, S.Ag., M.Pd.  
db 13,10,| Jam : 10:30 - 12:10  
db 13,10,| Ruangan : 4.1.5.59  
db 13,10,"=====+$'  
  
hari7 db 13,10,"  
db 13,10,"+=====+  
db 13,10,| Minggu  
db 13,10,-+-----+  
db 13,10,| HAPPY WEEKEND!!!  
db 13,10,"=====+$'  
  
ret
```

Tampilan Output Program

edit: C:\emu8086\MySource\jdwl1.asm

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original source code

```
001 .model small
002 .code
003 org 100h
004
005 start:
006     jmp mulai
007
008 welcome db 13,10,''
009 nama db 13,10,''
010 nim db 13,10,''
011 kelas db 13,10,''
012 masukkan db 13,10,''
013
014 tampung_nama db 30,?,30
015 tampung_nim db 30,?,30
016 tampung_hai db 30,?,30
017 tampung_kelas db 30,?,30
018
019
020 jadwal db 13,10,''
021 db 13,10,''
022 db 13,10,''
023 db 13,10,''
024 db 13,10,''
025 db 13,10,''
026 db 13,10,''
027 db 13,10,''
028 db 13,10,''
029 db 13,10,''
030 db 13,10,''
031 db 13,10,''
032 db 13,10,''
033 db 13,10,''
034 db 13,10,''
035 db 13,10,''
036 db 13,10,''
037 db 13,10,''
038 db 13,10,''
039 db 13,10,''
040 db 13,10,''
041 db 13,10,''
042
043
044 mulai:
045     mov ah,09h
046     lea dx,welcome
047     int 21h
048     mov ah,0ah
049     lea dx,tampung_hai
050     int 21h
051     push dx
052
053     mov ah,09h
054     lea dx,tampung_nama
055     int 21h
056     push dx
057
058     mov ah,09h
059     lea dx,nim
060     int 21h
061     mov ah,0ah
062     lea dx,tampung_nim
063     int 21h
064     push dx
065
066     mov ah,09h
067     lea dx,tampung_kelas
068     int 21h
069     push dx
070
071     mov ah,09h
072     lea dx,kelas
073     int 21h
074     mov ah,0ah
075     lea dx,tampung_kelas
076     int 21h
077
078 ***
```

1 Mata Kuliah: \$'

NO	HARI	NO	HARI
1.	SENIN	5.	JUMAT
2.	SELASA	6.	SABTU
3.	RABU	7.	MINGGU
4.	KAMIS		

emulator: jdwl1.com_

file math debug view external virtual devices virtual drive help

Load reload step back stop waiting for input step delay ms: 0

registers

	H	L
AX	0A	24
BX	00	00
CX	0F	B2
DX	01	E3
CS	F400	
IP	0200	
SS	0700	

F400:0200 F400:0200

BIOS DI
INT 021h
IRET
ADD [BX + SI], AL
...

screen source reset aux vars debug stack flags

emulator screen (80x25 chars)

Selamat Datang di Jadwal Mata Kuliah

Nama : Mutiara Avivah
NIM : 2400018105
Kelas: C

clear screen change font 0/16

line: 4 col: 48 drag a file here to open

Tampilan Output Program

edit: C:\emu8086\MySource\jdwl1.asm

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original source code

```
001 .model small
002 .code
003 org 100h
004
005 start:
006     jmp mulai
007
008 welcome db 13,10,''
009 nama db 13,10,''
010 nim db 13,10,''
011 kelas db 13,10,''
012 masukkan db 13,10,''
013 tampung_nama db 30,?,30
014 tampung_nim db 30,?,30
015 tampung_hai db 30,?,30
016 tampung_kelas db 30,?,30
017
018 jadwal db 13,10,''
019
020
021
022
023
024
025
026
027
028
029
030
031
032
033
034
035
036
037
038
039
040
041
042
043
044 mulai:
045     mov ah,09h
046     lea dx,welcome
047     int 21h
048     mov ah,0ah
049     lea dx,tampung_hai
050     int 21h
051     push dx
052
053     mov ah,09h
```

jadwal Mata Kuliah

NO	HARI	NO	HARI
1.	SENIN	5.	JUMAT
2.	SELASA	6.	SABTU
3.	RABU	7.	MINGGU
4.	KAMIS		

waiting for input

F400:0200 F400:0200

AX	H	L
01	24	
BX	00	00
CX	0F	B2
DX	01	5A
CS	F400	
IP	0200	
SS	0700	

BIOS DI
INT 021h
IRET
ADD [BX + SI], AL
...

emulator screen (80x25 chars)

Kelas: C

JADWAL MATA KULIAH			
NO	HARI	NO	HARI
1.	SENIN	5.	JUMAT
2.	SELASA	6.	SABTU
3.	RABU	7.	MINGGU
4.	KAMIS		

Masukkan Nomor Jadwal Mata Kuliah: _

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line: 4 col: 48 drag a file here to open

Tampilan Output Program

edit: C:\emu8086\MySource\jdwl1.asm

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original source code

```
001 .model small
002 .code
003 org 100h
004
005 start:
006     jmp mulai
007
008 welcome db 13,10,''
009 nama db 13,10,''
010 nim db 13,10,''
011 kelas db 13,10,''
012 masukkan db 13,10,''
013 tampung_nama db 30,?,30
014 tampung_nim db 30,?,30
015 tampung_hari db 30,?,30
016 tampung_kelas db 30,?,30
017
018 jadwal db 13,10,''
019
020
021
022
023
024
025
026
027
028
029
030
031
032
033
034
035
036
037
038
039
040
041
042
043
044 mulai:
045     mov ah,09h
046     lea dx,welcome
047     int 21h
048     mov ah,0ah
049     lea dx,tampung_hari
050     int 21h
051     push dx
052
053     mov ah,00h
```

hasil1:

```
116 cmp al,'?'
117 je hasil1?
118
119 hasil1:
120 mov ah,09h
121 lea dx,hari1
122 int 21h
123 int 20h
124 hasil2:
125 mov ah,09h
126 lea dx,hari2
127 int 21h
128 int 20h
129 hasil3:
130 mov ah,09h
131 lea dx,hari3
132 int 21h
133 int 20h
```

jadwal

NO	HARI	NO	HARI
1.	SENIN	5.	JUMAT
2.	SELASA	6.	SABTU
3.	RABU	7.	MINGGU
4.	KAMIS		

message

PROGRAM HAS RETURNED CONTROL
TO THE OPERATING SYSTEM

OK

emulator: jdwl1.com

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Load reload step back single step run step delay ms: 0

registers

AX	09	24
BX	33	00
CX	0F	B2
DX	0A	68
CS	F400	
IP	0154	
SS	0700	

F400:0154 F400:0154

```
F4150: FF 255 RES
F4151: FF 255 RES
F4152: CD 205 =
F4153: 20 032 SPA
F4154: CF 207 =
F4155: 00 000 NULL
F4156: 00 000 NULL
F4157: 00 000 NULL
F4158: 00 000 NULL
F4159: 00 000 NULL
```

BIOS DI
INT 020h
IRET
ADD [BX + SI], AL
ADD BH, BH
...

screen source reset aux vars debug stack flags

emulator screen (80x25 chars)

1.	SENIN	5.	JUMAT
2.	SELASA	6.	SABTU
3.	RABU	7.	MINGGU
4.	KAMIS		

Masukkan Nomor Jadwal Mata Kuliah: 3

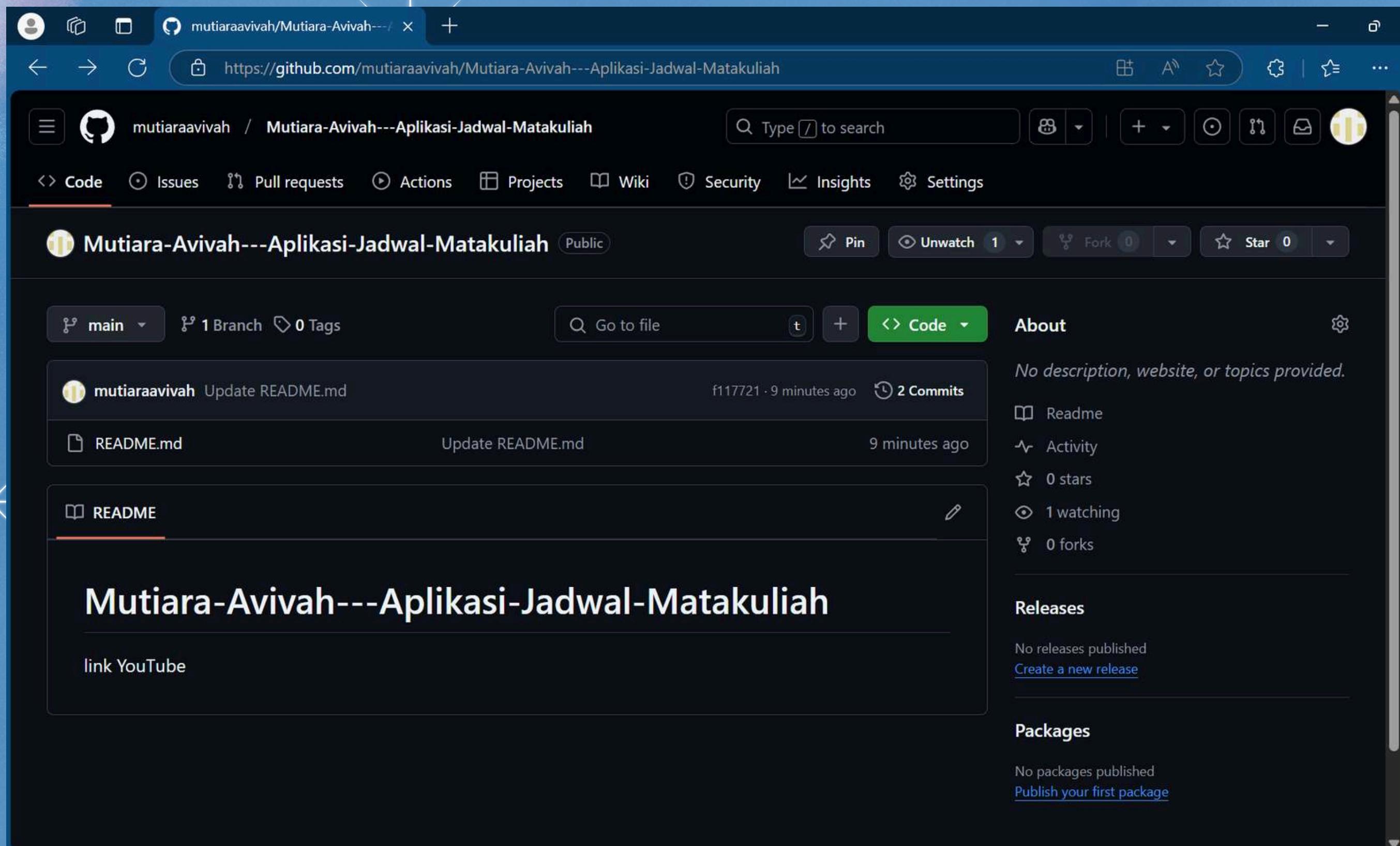
Rabu

Dasar Sistem Komputer
Dosen : Ali Tarmuji, S.T., M.Cs.
Jam : 07:00 - 08:40
Ruangan: 4.1.4.49

clear screen change font 0/16

line: 4 col: 48 drag a file here to open

Tampilan Github



<https://github.com/mutiaraavivah/Mutia-Avivah---Aplikasi-Jadwal-Matakuliah>

TERIMAKASIH

