

Pembuatan program

```
void tampil(){
while(1){
    bpms=bpm*2;
    lms=lm*2;
    lcd_gotoxy(0,0);
    sprintf(buf,"BPM : %d ",bpms);
    lcd_puts(buf);
    lcd_gotoxy(0,1);
    sprintf(buf,"Resp: %d ",lms);
    lcd_puts(buf);
    if(bpms<60)
    {
        lcd_gotoxy(9,0);
        lcd_putsf("brady");
    }

    if(bpms>=60 && bpms<=100)
    {
        lcd_gotoxy(9,0);
        lcd_putsf("normal");
    }
    if(bpms>100)
    {
        lcd_gotoxy(9,0);
        lcd_putsf("trachyc");
    }
}
```

```
if(lms<12)
{
lcd_gotoxy(9,1);
lcd_putsf("brady");
}
if(lms>=12 && lms<=20)
{
lcd_gotoxy(9,1);
lcd_putsf("normal");
}
if(lms>20)
{
lcd_gotoxy(9,1);
lcd_putsf("tachy");
}
delay_ms(1000);
lcd_clear() ;
lcd_gotoxy(0,0);
sprintf(buf,"BPM : %d ",bpms);
lcd_puts(buf);
lcd_gotoxy(0,1);
sprintf(buf,"Resp: %d ",lms);
lcd_puts(buf);
delay_ms(500);
}}
```

```
#asm("sei")
```

```
lcd_gotoxy(0,0);
```

```

lcd_putsf("KHAIRUSKA.G");
lcd_gotoxy(0,1);
lcd_putsf("20143010026");
delay_ms(1000);
lcd_clear();
lcd_gotoxy(0,0);
lcd_putsf("RELAX");
lcd_gotoxy(0,1);
lcd_putsf("PUSH START");

while (1)
{
    if(!PINB.2)
{
    data=0;lcd_clear();TCNT0=0;TCNT1=0;
    while(1){
        bpm=TCNT0;
        lm=TCNT1;
        lcd_gotoxy(0,0);
        lcd_putsf("waiting");
        lcd_gotoxy(0,1);
        sprintf(buf,"%d ",data);
        lcd_puts(buf);
        lcd_gotoxy(9,0);
        sprintf(buf,"%d ",bpm);
        lcd_puts(buf);
        lcd_gotoxy(9,1);
        sprintf(buf,"%d ",lm);
    }
}
}

```

```

lcd_puts(buf);

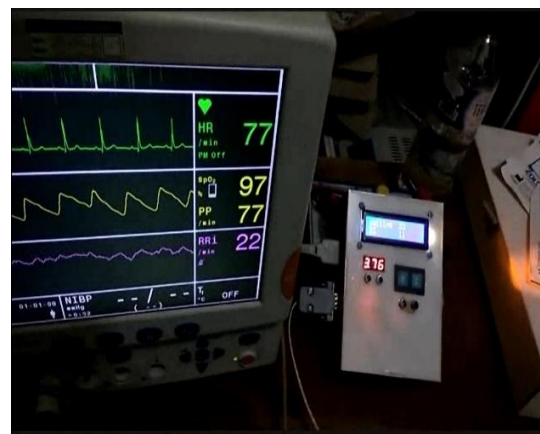
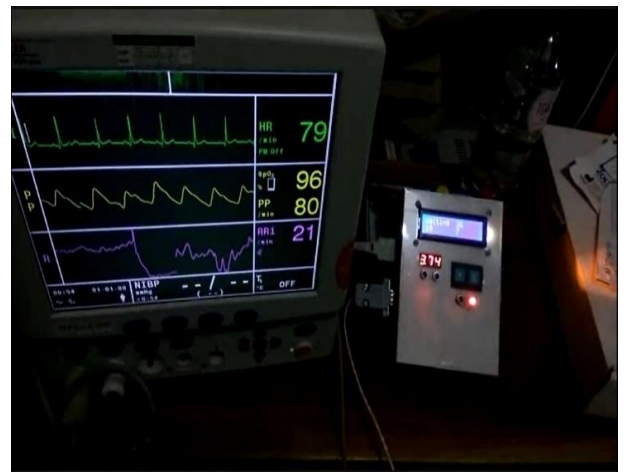
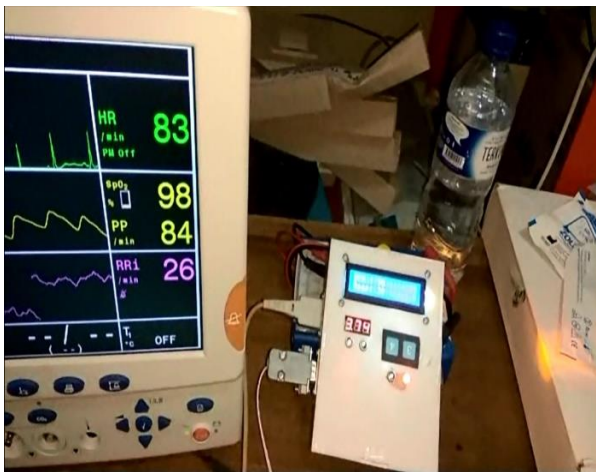
if(data>30) {tampil();}

} }

```

Gambar kegiatan

1. Pengambilan data



2. Uji ketahanan baterai

