Corrigé DS Electronique Embarquée 2021

Exercice N° 1

```
#define AdrRTC 0x68
byte mins,hrs;
void setup() {
  Serial.begin(9600);
  Wire.begin();
  Wire.beginTransmission(AdrRTC);
  Wire.write(0x00);
  Wire.write(0x00);
  Wire.endTransmission();
  ReglageHeure (0x15, 0x32) ;
}
void  ReglageHeure (byte heure, byte minute)
{
  Wire.beginTransmission(AdrRTC);
  Wire.write(0x02);
  Wire.write(minute);
  Wire.write(heure);
  Wire.endTransmission();
}
void loop() {
  Wire.beginTransmission(AdrRTC);
  Wire.write(0x01);
  Wire.endTransmission(false);
  Wire.requestFrom(AdrRTC, 2);
  if (Wire.available() )
  {
    mins = Wire.read();
    hrs = Wire.read();
  }
 Serial.print(hrs,HEX);  Serial.print(":");  Serial.println(mins,HEX);
 delay(1000);
}
```

Exercice N° 2

```
#define AdrADC 0x08

byte AdcValLow,AdcValHigh;

int Adc_Val ;

void setup() {
  Serial.begin(9600);
  Wire.begin();
}

void loop() {
   Wire.requestFrom(AdrRTC, 2);
  if (Wire.available() )
  {
    AdcValHigh = Wire.read();
    AdcValLow = Wire.read();
  }
  Adc_Val = ((AdcValHigh << 8) + AdcValLow)>> 4 ;
  Serial.print(AdcVal);
 delay(1000);
}
```