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Informatika Internasional

Tugas 1

Referensi Arduino

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| --- | --- | --- |
| Structure  setup()  loop()  Control Structures  if  if...else  for  switch case  while  do... while  break  continue  return  goto  Further Syntax  ; (semicolon)  {} (curly braces)  // (single line comment)  /\* \*/ (multi-line comment)  #define  #include  Arithmetic Operators  = (assignment operator)  + (addition)  - (subtraction)  \* (multiplication)  / (division)  % (modulo)  Comparison Operators  == (equal to)  != (not equal to)  < (less than)  > (greater than)  <= (less than or equal to)  >= (greater than or equal to)  Boolean Operators  && (and)  || (or)  ! (not)  Pointer Access Operators  \* dereference operator  & reference operator  Bitwise Operators  & (bitwise and)  | (bitwise or)  ^ (bitwise xor)  ~ (bitwise not)  << (bitshift left)  >> (bitshift right)  Compound Operators  ++ (increment)  -- (decrement)  += (compound addition)  -= (compound subtraction)  \*= (compound multiplication)  /= (compound division)  %= (compound modulo)  &= (compound bitwise and)  |= (compound bitwise or) | Variables  Constants  HIGH | LOW  INPUT | OUTPUT | INPUT\_PULLUP  LED\_BUILTIN  true | false  integer constants  floating point constants  Data Types  void  boolean  char  unsigned char  byte  int  unsigned int  word  long  unsigned long  short  float  double  string - char array  String - object  array  Conversion  char()  byte()  int()  word()  long()  float()  Variable Scope & Qualifiers  variable scope  static  volatile  const  Utilities  sizeof()  PROGMEM | Functions  Digital I/O  pinMode()  digitalWrite()  digitalRead()  Analog I/O  analogReference()  analogRead()  analogWrite() - PWM  Due & Zero only  analogReadResolution()  analogWriteResolution()  Advanced I/O  tone()  noTone()  shiftOut()  shiftIn()  pulseIn()  Time  millis()  micros()  delay()  delayMicroseconds()  Math  min()  max()  abs()  constrain()  map()  pow()  sqrt()  Trigonometry  sin()  cos()  tan()  Characters  isAlphaNumeric()  isAlpha()  isAscii()  isWhitespace()  isControl()  isDigit()  isGraph()  isLowerCase()  isPrintable()  isPunct()  isSpace()  isUpperCase()  isHexadecimalDigit()  Random Numbers  randomSeed()  random()  Bits and Bytes  lowByte()  highByte()  bitRead()  bitWrite()  bitSet()  bitClear()  bit()  External Interrupts  attachInterrupt()  detachInterrupt()  Interrupts  interrupts()  noInterrupts()  Communication  Serial  Stream  USB (32u4 based boards and Due/Zero only)  Keyboard  Mouse |