

1- Convert the number (11110) from binary to decimal
(decimal)

حول رقم (11110) من binary إلى decimal (عشرى)

Solution

```
//www.gammal.tech  
// 11110 = (1 × 24) + (1 × 23) + (1 × 22) + (1 × 21) + (0 × 20) = (30)
```

2- Convert the number (1111110) from binary to decimal
(decimal)

حول رقم (1111110) من binary إلى decimal (عشرى)

Solution

```
//www.gammal.tech  
// (1111110) = (1 × 26) + (1 × 25) + (1 × 24) + (1 × 23) + (1 × 22) + (1 × 21) + (0 × 20) = (126)
```

3- Convert the number (101) from binary to decimal
(decimal)

حول رقم (101) من binary إلى decimal (عشرى)

Solution



```
//www.gammal.tech
```

```
// (101) = (1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0) = (5)
```

4- Convert the number (1011101) from binary to decimal (decimal)

حول رقم (1011101) من binary إلى decimal (عشرى)

Solution



```
//www.gammal.tech
```

```
// (1011101) = (1 \times 2^6) + (0 \times 2^5) + (1 \times 2^4) + (1 \times 2^3) + (1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0) = (93)
```

5- Convert the number (10010) from binary to decimal (decimal)

حول رقم (10010) من binary إلى decimal (عشرى)

Solution



```
//www.gammal.tech
```

```
//  $10010 = (1 \times 2^4) + (0 \times 2^3) + (0 \times 2^2) + (1 \times 2^1) + (0 \times 2^0) = (18)$ 
```

6- Convert the number (110010) from binary to decimal (decimal)

حول رقم (110010) من binary إلى decimal (عشرى)

Solution



```
//www.gammal.tech
```

```
//  $110010 = (1 \times 2^5) + (1 \times 2^4) + (0 \times 2^3) + (0 \times 2^2) + (1 \times 2^1) + (0 \times 2^0) = 50$ 
```

7- Convert the number (111111) from binary to decimal (decimal)

حول رقم (111111) من binary إلى decimal (عشرى)

Solution



//www.gammal.tech

// $111111 = (1 \times 2^5) + (1 \times 2^4) + (1 \times 2^3) + (1 \times 2^2) + (1 \times 2^1) + (1 \times 2^0) = (63)$

8- Convert the number (1010101) from binary to decimal (decimal)

حول رقم (1010101) من binary إلى decimal (عشرى)

Solution



//www.gammal.tech

// $1010101 = (1 \times 2^6) + (0 \times 2^5) + (1 \times 2^4) + (0 \times 2^3) + (1 \times 2^2) + (0 \times 2^1) + (1 \times 2^0) = (85)$

9- Convert the number (1010) from binary to decimal (decimal)

حول رقم (1010) من binary إلى decimal (عشرى)

Solution



//www.gammal.tech

// $1010 = (1 \times 2^3) + (0 \times 2^2) + (1 \times 2^1) + (0 \times 2^0) = (10)$

10- Convert the number (1011) from binary to decimal (decimal)

حول رقم (1011) من binary إلى decimal (عشرى)

Solution



```
//www.gammal.tech
```

```
// 1011 = (1 × 23) + (0 × 22) + (1 × 21) + (1 × 20) = (11)
```
