

PHP, the `printf` function is used for formatted output. It allows you to print formatted strings with placeholders that can be replaced by values.

```
$name = "Alice";
$age = 25;
printf("Name: %s, Age: %d", $name, $age);
```

Here `%s` is a placeholder for a string, and `%d` is a placeholder for an integer. The `printf` function replaces these placeholders with the values of `$name` and `$age`,

### PHP `printf()` placeholders

`%s` is used for inserting strings into the formatted output.

```
$name = "Alice";
printf("Name: %s", $name);
```

`%d` or `%i` is used for inserting signed decimal integers into the formatted output.

```
$age = 25;
printf("Age: %d", $age);
```

`%f` is used for inserting floating-point (decimal) numbers into the formatted output.

```
$price = 19.99;
printf("Price: %.2f", $price);
```

`%x` is used for inserting lowercase hexadecimal numbers into the formatted output.

```
$hexValue = 255;
printf("Hex Value: %x", $hexValue);
```

`%X` - Uppercase Hexadecimal Number

```
$hexValue = 255;
printf("Hex Value: %X", $hexValue);
```

#php