

## # switch statement

MATADOR

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// switch keyword: switch, case, break, default

// Write a program that read a digit and display its spelling.

```
{ int digit;
```

```
printf("Enter a digit=");
```

```
scanf("%d", &digit);
```

```
switch(digit){
```

```
case 0:
```

```
printf("Zero");
```

```
break;
```

```
case 1:
```

```
printf("one");
```

```
break;
```

```
case 2:
```

```
printf("two");
```

```
break;
```

```
case 3:
```

```
printf("Three");
```

```
break;
```

```
case 4:
```

```
printf("Four");
```

```
break;
```

```
case 5:
```

```
printf("Five");
```

```
break;
```

```
case 6:
```

```
printf("Six");
```

```
break;
```

```
case 7:
```

```
printf("Seven");
```

```
break;
```

```
case 8:
```

```
printf("Eight");
```

```
break;
```

```
case 9:
```

```
printf("Nine");
```

```
break;
```

```
default:
```

```
printf("not a single  
digit");
```

```
}
```

```
}
```

// vowel or consonant check through the switch.

```
{
char ch;
printf("Enter a letter");
scanf("%c", &ch);
```

```
switch (ch) {
```

```
case 'a':
```

```
case 'e':
```

```
case 'i':
```

```
case 'o':
```

```
case 'u':
```

```
case 'A':
```

```
case 'E':
```

```
case 'I':
```

```
case 'O':
```

```
case 'U':
```

```
printf("vowel");
```

```
break;
```

```
default:
```

```
printf("consonant");
```

```
}
```

```
}
```



11 Temperature convert by switch

```
{  
    int choice;  
    float temp, conv;  
  
    printf("Temperature conversion menu\n");  
    printf("1. Fahrenheit to Celsius\n");  
    printf("2. Celsius to Fahrenheit\n");  
    printf("Enter your choice = ");  
    scanf("%d", &choice);  
  
    switch(choice) {  
        case 1:  
            printf("Enter the Fahrenheit temperature = ");  
            scanf("%f", &temp);  
            conv = (temp - 32) / 1.8;  
            printf("The temperature is Celsius = %f\n", conv);  
            break;  
        case 2:  
            printf("Enter the Celsius temperature = ");  
            scanf("%f", &temp);  
            conv = (1.8 * temp) + 32;  
            printf("The temperature is F = %f\n", conv);  
            break;  
        default:  
            printf("Not a correct option");  
    }  
}
```

# Make calculator

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// make a calculator

```
{  
double a, b;  
char c;  
printf("Enter two number = ");  
scanf("%lf %lf", &a, &b);  
printf("Enter an operator (+, -, *, /)");  
scanf("%c", &c);  
switch(c){  
    case '+': {  
        printf("%lf + %lf = %lf\n", a, b, a+b);  
        break; }  
    case '-': {  
        printf("%lf - %lf = %lf\n", a, b, a-b);  
        break; }  
    case '*': {  
        printf("%lf * %lf = %lf\n", a, b, a*b);  
        break; }  
    case '/': {  
        printf("%lf / %lf = %lf\n", a, b, a/b);  
        break; }  
    default:  
        printf("not a valid operator");  
}  
}
```