

## STUDENT ACTIVITY 1.2\_1 KEY: WRITING CONIDTIONAL STATEMENTS

MTA Course: Software Development Fundamentals

Topic: Understand computer decision structures

File name: SoftDevFund\_SA\_1.2\_1\_key

### Lesson Objective:

**1.2:** Understand computer decision structures.

### Resources, software, and additional files needed for this lesson:

- SoftDevFund\_PPT\_1
- SoftDevFund\_RL\_1.2
- SoftDevFund\_SA\_1.2\_1
- SoftDevFund\_SA\_1.2\_1\_key
- SoftDevFund\_SA\_1.2\_2

### Directions to the student:

Represent each situation as a condition starting with the keyword `if`. The names of the variables are underlined. The first one is done for you.

### Content:

1. You set the high score in Donkey Kong if your score is over 1,050,200 points.

```
if(score > 1050200)
```

2. Patrick wants to buy a shirt. He will buy the shirt if the shirt's coolness rating is above a 5 out of 10 and the cost is \$25 or less.

```
if((coolness > 5) && (cost>=25))
```

3. Morgan has different criteria for buying a shirt. The shirt must have at least 3 buttons and cost less than \$50.

```
if((buttons>=3) && (cost < 50))
```

4. Melissa is deciding whether to date Jarid. She will go out with him if he combed his hair or if he doesn't smell.

```
if(combed || !smell)
```

5. Jill has three criteria for deciding whether someone can be her friend. The person can be fun and kind... or they can just be rich.

```
if((fun && kind) || rich)
```

Write a switch statement (C#) or Select Case statement (VB) to print out the day of the week given an integer day:

int day;	Day of the Week
1	Sunday
2	Monday
3	Tuesday
4	Wednesday
5	Thursday
6	Friday
7	Saturday

### C# code:

```
switch (day)
{
    case 1:
        Console.WriteLine("Sunday");
        break;
    case 2:
        Console.WriteLine("Monday");
        break;
    case 3:
        Console.WriteLine("Tuesday");
        break;
    case 4:
        Console.WriteLine("Wednesday");
```

```

        break;
    case 5:
        Console.WriteLine("Thursday");
        break;
    case 6:
        Console.WriteLine("Friday");
        break;
    case 7:
        Console.WriteLine("Saturday");
        break;
    default:
        Console.WriteLine("No day");
        break;
}

```

### Visual Basic® code:

Select Case day

Case 1

```
Console.WriteLine("Sunday")
```

Case 2

```
Console.WriteLine("Monday")
```

Case 3

```
Console.WriteLine("Tuesday")
```

Case 4

```
Console.WriteLine("Wednesday")
```

Case 5

```
Console.WriteLine("Thursday")
```

Case 6

```
Console.WriteLine("Friday")
```

Case 7

```
Console.WriteLine("Saturday")
```

Case Else

```
Console.WriteLine("No day")
```

End Select