**Using the switch structure**

1. Rewrite the following if-else if –else into a switch statement.

Modify it to include a compound statement to take account of the user inputting a lower case letter, i.e S , s

if(marriage\_status == 'S')  
{  
 System.out. println("Single");  
}  
else if (marriage\_status == 'M')  
{  
 System.out. println("Married");  
}  
else if (marriage\_status == 'D')  
{  
 System.out. println("Divorced");  
}  
else if (marriage\_status == 'W')  
{  
 System.out. println("Widowed");  
}  
else  
{  
 System.out.println("Error - invalid Code");  
}

1. Write a program that reads in a single digit from the keyboard (digits 0 – 9) and displays the value as a word, for example an input of 5 will display the word five.
2. Write a program that will display the category of ships as follows:

|  |  |
| --- | --- |
| **Category** | **Type of ship** |
| B , b | Battleship |
| C, c | Cruiser |
| D, d | Destroyer |
| E, e | Frigate |
| Any other letter | No such ship found |

1. Write a program to input a character for a pack of playing cards and displays the following depending on the letter entered:

|  |  |
| --- | --- |
| **Character** | **Playing card** |
| J or j | Jack |
| Q or q | Queen |
| K or k | King |
| Any other letter | No matching card |

1. Write a program that will allow a user to enter a character and which will then display the corresponding suite of card for that character

|  |  |
| --- | --- |
| **Character** | **Card** |
| C or c | Club |
| D or d | Diamond |
| H or h | Heart |
| S or s | Spade |
| Any other character | No matching card |

1. Write a program that asks a user to enter the wattage of a light bulb and which will then determine the life expectancy of the bulb.

|  |  |
| --- | --- |
| **Watts** | **Life expectancy (hours)** |
| 25 | 2500 |
| 40 or 60 | 1000 |
| 75 or 100 | 750 |
| Any other value | 0 |