**Prac3 – Using the switch statement**

**Q1**

Write a program using a **switch** statement to determine the day of the week given a day number, the user will enter a number is the range 1-7 and output the name of the day ( 1 = Monday, 2 = Tuesday etc)

If an invalid day number is entered , signal this with an error message.

**Q2**

Write a program using a **switch** statement to determine the total cost of an order, where the user enters a product code and a quantity.

The cost of each product is listed below

|  |  |
| --- | --- |
| Product Code | Cost |
| ASD | 67.95 |
| THF | 68.90 |
| TYG | 34.95 |
| GHT | 88.90 |
| YUR | 23.80 |
| UIT | 9.90 |
| HIT,UIP,RRT,JJk,IOP | These are all 10 |

If an invalid product code is entered , signal this as an error.

If the total value of the order is greater than 500 a discount of 10% is applied

**Q3**

Write a program which will read in the score a gamer got in a game and determines their corresponding ranking, given the following – you must use a switch statement (but Not with 100 cases! – hint think integer division)

|  |  |
| --- | --- |
| Score | Message |
| 100 - 80 | “Awesome dude” |
| 79- 70 | “Your good dude” |
| 69 - 60 | “some potential here dude” |
| 59 - 50 | “back to the training ground dude” |
| 49 - 0 | “don’t give up the day job dude” |

**Q4**

Write a program that takes user input describing playing cards in the following shorthand notation

|  |  |
| --- | --- |
| A | Ace |
| 2..10 | Card values |
| J | Jack |
| Q | Queen |
| K | King |
| D | Diamonds |
| H | Hearts |
| S | Spades |
| C | Clubs |

Your program should print the full description of the card. For example:

Enter the card notation : QS

Queen of spades

or

Enter the card notation : 5H

Five of Hearts

Hint : consider string x = “QS”; you can access each individual character of the string using x[index], where index is position of the character we are interested in. In this case x[0] is ‘Q’ and x[1] is ‘S’

Q5.

Write a program that read a word and print the number of vowels in that word. For example if the user provides the word “Harry”, the program prints *2 vowels. Hint:* consider string x = “abc”; x.Length returns the length of the string, i.e 3 so we loop 3 times examining each letter

Q6 (loop revision)

Write a program to print the following celcius/Fahrenheit conversion table.

C is Celsius  
F is Fahrenheit

**C = 5/9 (F-32)**

**F = 9/5 (C+32)**

|  |  |
| --- | --- |
| Celcius | Fahrenheit |
| 0 | 32 |
| 10 | 50 |
| 20 | 68 |
| … | .. |
| … | .. |
| 100 | 211 |