

Chapter 2 – The Use of Variables – Solutions

Activity 2.1

```
#2.1
first_name=input("What is your first name?: ")
surname=input("What is your surname?: ")
animal=input("What is your favourite animal?: ")
print("Welcome",first_name,surname,"Your favourite animal is a: ",animal)
```

Activity 2.2

```
#2.2
pi=3.14
radius=3
area=pi*radius**2
print("The area is: ",area)
```

Activity 2.3

Word	What does it mean?	Example
Variable	Variables are used in computer programs to store a piece of information. A variable is like a box that can only store one piece of information at a time.	if you create a computer program that asks for a person's name. A variable can be used to store the person's name.
Constant	Sometimes the data item being stored will not change whilst the program is running. These items of data are called constants.	In a program that uses pi, this will always remain constant (3.14)
Operators	Python can also be used to carry out calculations. The symbols used are called operators.	Equals (=) Add (+) Multiply (*)
Input	input is used to tell the computer that you are expecting the person using the program to enter something.	You are expecting the user to enter a name.
Output	The output is the product of the program you have written.	Print is often in Python to output information, which could be a mixture of text strings and the value assigned to the variable.
Assignment	This is the act of giving a value to a variable.	Once the user has entered a name, the variable is assigned this value.

Activity 2.4

5x and **global** will cause a syntax error