

تم تحميل هذا الملف من موقع المناهج الإماراتية



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## Introduction to programming

Computers are used every day of our lives. Mobile phones, games consoles, laptops and tablets are all computers. Computers can only work when we tell them what to do. To do this we have to talk to the computer in a language it will understand. We use a programming language to create programs that the computer can understand and run.



### Activity 1

واتين

#### Discussing current and future job roles

Look at the job roles in the table below. Think about what these job roles are now. What do you think will be different about these jobs in the future?

Job role	The job role now	The job role in future
computer scientist	Write software to make computers do new things	Create a new systems for different computers
engineer	Fix computers	Develop a new kinds of computers
information technologist	Store and organize data	Design programs



## Activity 8

### Fill in the blanks

The first computer algorithm was created by Ada Lovelace.  
\_\_\_\_\_ was one of the first high level languages made for  
computer.

Python is the world's most popular programming language. Other languages  
such as java, objective and C# have been  
developed from this.

Pinterest and Instagram have been made using the Com Pu ter programming  
language.

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## Activity 4

### Matching

We use algorithms everyday even if we don't realise it. Match the picture with the correct type of algorithm.

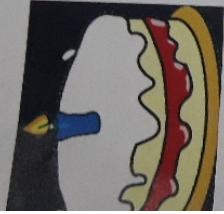


fig 1.11



fig 1.12



fig 1.13

The algorithm you follow is a set of directions. There can be different ways to solve a problem, so there are many algorithms.

The algorithm to follow is the list of instructions to build a toy.

You can find instructions in a cookbook to solve this problem.

واجب

H.w

### Write your own algorithm

Write an algorithm to make a cup of tea.

Remember each answer is different, you might have more steps or less steps than another student.

- 1- Bring cup of tea
- 2- Heat the water
- 3- Bringsugar and tea
- 4- place the sugar and tea and water in the cu
- 5- move the sugar and tea and water
- 6- Drink it
- 7- Finish

this is what the output  
should be from your code  
after you run it.

What did the **print()** function do in this program?

طبع أي شيء داخل الكود

print "~~data~~"  
anything

een:

x

a

Try this in your program. What is the result?

```
print(hello world)
```

Print (helle world)  
not Print

## Activity 8

The error

is the error in the code below?

```
print("My name is Asma.")
```

```
print("my name is Asma")
```

Write the code above in a new Python file in Pycharm (you can call it **name is**). What error message do you get?

```
Print("my name is")
```

How is this error message different to the error message from typing `print(world)`?

```
Print('hello world')
```



## Translating an algorithm into code

Write an algorithm for getting ready for school in the morning.

Start → wake up → wash my face → brush my teeth  
go school/by bus ← wear my clothes ← eat breakfast ← pray

A flowchart is used to show an algorithm as a diagram. There are certain shapes that must be used for this. All shapes are connected with arrows:

Make sure you check for any errors. All function names and arguments in the print() function are inside quotations ". Check you have used a small p for the print() function.

Run your program. What is the output?

The output is the screen that shows you when you want to run your commands