

Software Development

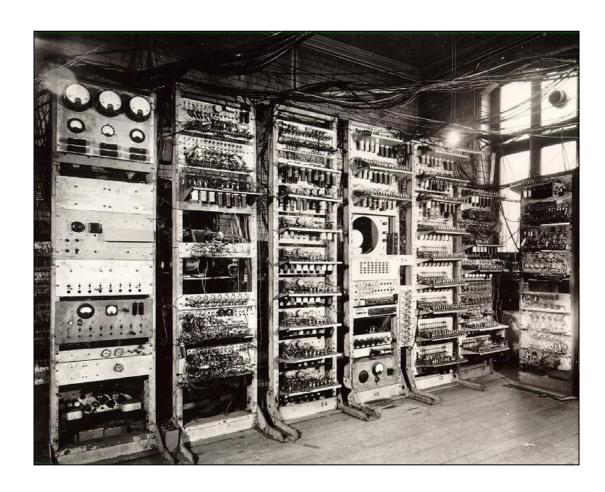






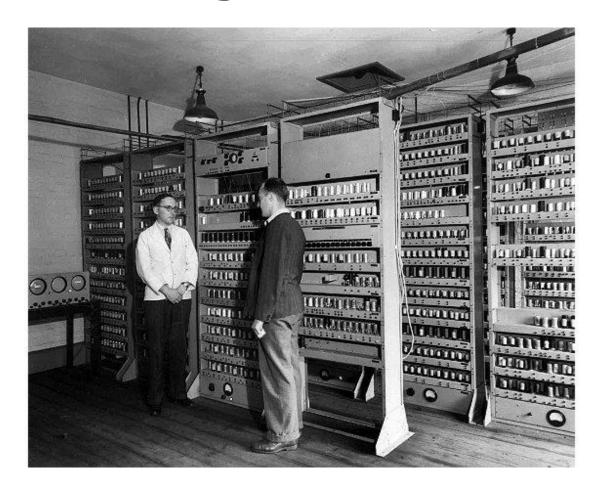


Computer





Programmers





Computer

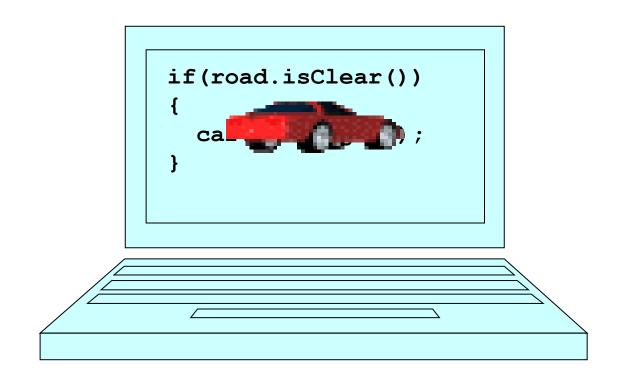




Programmers







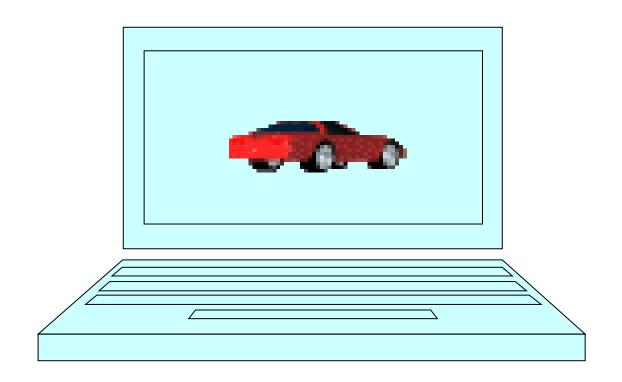
The set of instructions that tells a machine what to do is called a program



```
if(road.isClear())
{
   car.turnRight();
}
```

Software is the name given to a single program or a set of programs.





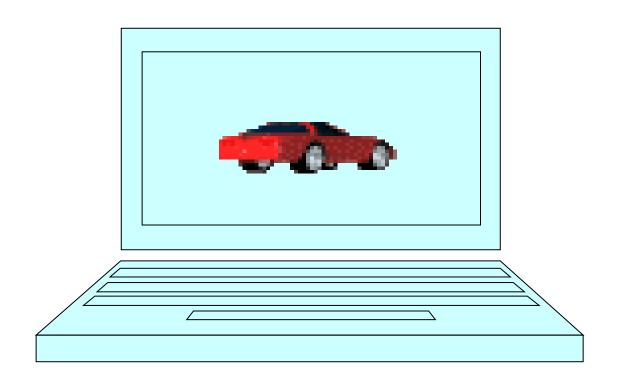
Programming is the task of giving instructions to a computer



```
if(road.isClear())
{
    car.turnRight();
}
```

These instructions usually have to be written in a special programming language.





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Activity

"Can you name some programming languages in use today?"



Sep 2019	Sep 2018	Change	Programming Language	Ratings	Change
1	1		Java	16.661%	-0.78%
2	2		С	15.205%	-0.24%
3	3		Python	9.874%	+2.22%
4	4		C++	5.635%	-1.76%
5	6	^	C#	3.399%	+0.10%
6	5	~	Visual Basic .NET	3.291%	-2.02%
7	8	^	JavaScript	2.128%	-0.00 <mark>%</mark>
8	9	^	SQL	1.944%	-0.12%
9	7	~	PHP	1.863%	-0.91%
10	10		Objective-C	1.840%	+0.33%

PYPL PopularitY of Programming Language index

https://www.tiobe.com/tiobe-index/





java.com



Java Applications





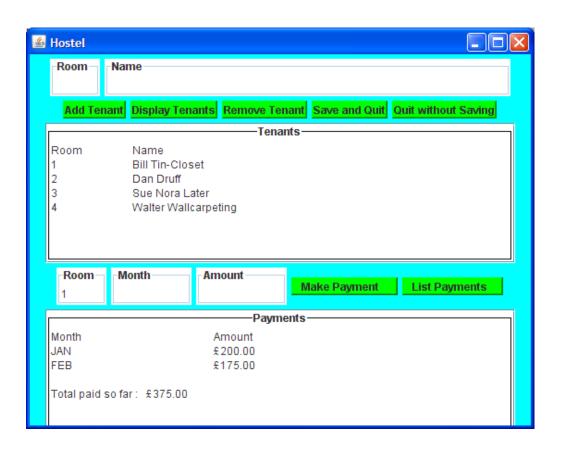
A console application

```
C:\Program Files\Xinox Software\JCreatorV3\GE2001.exe

*** Product Price Check ***
Enter initial price: 1000
Enter tax rate: 17.5
Cost after tax = 1175.0
Press any key to continue..._
```



A graphical application



A Java Applet running in a browser



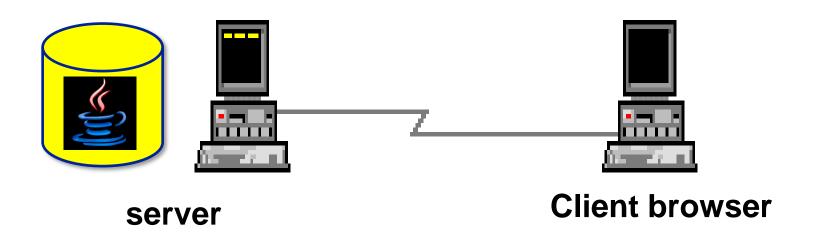


A Java application running on a smart phone





Java in a Network Environment





In this module we will develop console applications..

```
C:\Program Files\Xinox Software\JCreatorV3\GE2001.exe

*** Product Price Check ***
Enter initial price: 1000
Enter tax rate: 17.5
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