1. List and explain at least 5 factors for choosing a programming  
   language.

* The targeted platform
* The elasticity of a language
* The time to production
* The performance
* The support and community.

1. List and describe the features of at least two IDEs used for  
   writing Python code.

* Visual Studio Code
* Eclipse + PyDev
* Sublime Text
* GNU Emacs
* Vi / Vim
* Visual Studio

1. Install the latest version of Python on your computer.
2. Install the Visual Studio Code application on your computer.
3. Create a Python file called profile.py in the Visual Studio Code  
   application. Write code in this file that will display the following  
   output:  
   • Favourite music genre(s)  
   • Favourite countries visited  
   • Favourite food  
   • Favourite sport(s)  
   • Favourite car(s)  
   • Favourite subject(s)

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| --- |
| # profile.py  def display\_profile():  print("Favourite music genre(s): r/b")  print("Favourite countries visited: france")  print("Favourite food: Pizza")  print("Favourite sport(s): basketball")  print("Favourite car(s): 911 gtrs")  print("Favourite subject(s): Computer Science")  if \_\_name\_\_ == "\_\_main\_\_":  display\_profile() |

1. Create a Python file called movie.py in the Visual Studio Code  
   application. Write code in this file that will display the following  
   output:  
   • The title of your favourite movie  
   • The director of your favourite movie  
   • The cast of your favourite movie  
   • The genre of your favourite movie  
   • The year your favourite movie was released

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| --- |
| # movie.py  def display\_movie\_info():  title = "Inception"  director = "Christopher Nolan"  cast = ["Leonardo DiCaprio", "Joseph Gordon-Levitt", "Ellen Page", "Tom Hardy", "Ken Watanabe", "Cillian Murphy", "Marion Cotillard", "Michael Caine"]  genre = "Science Fiction, Action"  year = 2010  print("Title:", title)  print("Director:", director)  print("Cast:", ', '.join(cast))  print("Genre:", genre)  print("Year Released:", year)  if \_\_name\_\_ == "\_\_main\_\_":  display\_movie\_info() |