1. There is a common misunderstanding when it comes to the role technology plays in the daily operation of businesses. In some quarters, there are fears that technology will make certain jobs in the future obsolete.
2. Explain why you think the statement on the left isn’t necessarily true.

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| Although many jobs (especially in manufacturing) are being fulfilled by robots/AI technology, there is still a need for people to write programs to control what the robot does, engineers to create a physical model of the robot.  There has been a big shift in where the job opportunities lie, with regards to technology and engineering – the demand certainly outweighs the supply. This is because not everyone studies for a career in programming/computer science and some people find it very difficult or overwhelming with the prospect of upskilling/re-training. |

1. List some examples in which technology has replaced jobs normally completed by humans.

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| Some examples could include: Car production, Welding, assembling parts e.g. fitting windscreens, Paint spraying, carrying parts around the factory, Bionics e.g. robotic legs and arms controlled by the human brain, Space probes.  Student answers will vary. |

1. Use the table below to identify the benefits and drawbacks of using computer-controlled technology such as robots.

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| **Advantages** | **Disadvantages** |
| Can operate 24 hours a day without taking a break. | The software for the control system is specialist and may cost a lot of money to develop |
| Can be used in dangerous or awkward environments | People sometimes want to know that an expert is in control even if a computer could do it as well. e.g. a pilotless commercial aircraft is not likely to be popular although in theory it is possible. Or a robotic surgical procedure. |
| Will work without any wages. | The computer cannot react to unexpected events as perhaps a person could. It can only respond in the way it has been programmed. |
| Will accurately repeat actions over and over again | If there is a power cut the system will not work |
| Can take account of hundreds of inputs at the same time | If the computer malfunctions the system will not work |
| Can make reliable and accurate decisions |  |
| Can work without holidays or sick days |  |
| Can process data from sensors very quickly |  |