**ASSIGNMENT 1 WORKSHEET - MS**

|  |  |  |
| --- | --- | --- |
| 1  2 | Four from:  Data from the temperature sensor is sent to the microprocessor  The microprocessor has a stored/preset value  Data from the temperature sensor is compared with the preset value  If the reading is higher than the preset value«  «microprocessor sends signal«  «to the actuator to turn the oven off  If the reading is lower than the preset value signal is sent to the oven to turn/keep  it on  Continual process  Six from:  **Benefits**  Robots can work in sterile/hazardous areas where humans would need  protective clothing  Robots can work 24/7  Cheaper in the long run  More accurate  Cars will be more consistent  Robots do the boring/laborious work  Issues can be found quicker  Higher productivity  **Drawbacks**  More expensive to buy//more expensive in the short term  Maintenance is more expensive as maintenance staff needed  Requires backup systems, which are expensive  They replace skilled workers, leading to de-skilling  They need constant observation which increases the cost of maintenance  crews  If something goes wrong, it may be difficult to find the error  Workers need to be re-trained which is expensive  To gain full marks there must be at least one benefit and drawback | 4  6 |