**ASSIGNMENT 1 WORKSHEET - MS**

|  |  |  |
| --- | --- | --- |
| 12 | Four from:Data from the temperature sensor is sent to the microprocessorThe microprocessor has a stored/preset valueData from the temperature sensor is compared with the preset valueIf the reading is higher than the preset value««microprocessor sends signal««to the actuator to turn the oven offIf the reading is lower than the preset value signal is sent to the oven to turn/keepit onContinual process Six from:**Benefits**Robots can work in sterile/hazardous areas where humans would needprotective clothingRobots can work 24/7Cheaper in the long runMore accurateCars will be more consistentRobots do the boring/laborious workIssues can be found quickerHigher productivity**Drawbacks**More expensive to buy//more expensive in the short termMaintenance is more expensive as maintenance staff neededRequires backup systems, which are expensiveThey replace skilled workers, leading to de-skillingThey need constant observation which increases the cost of maintenancecrewsIf something goes wrong, it may be difficult to find the errorWorkers need to be re-trained which is expensiveTo gain full marks there must be at least one benefit and drawback | 46 |