# MS4S09 Coursework 2 - 2020/21

17076749

Mark Baber

xx/xx/2021

```
## Warning: package 'magrittr' was built under R version 4.0.3
```

```
## Warning: package 'knitr' was built under R version 4.0.3
```

## Task 1 – Getting the data (10%)

### Download the data

Mean Dataset https://www.metoffice.gov.uk/pub/data/weather/uk/climate/datasets/Tmean/date/UK.txt

Min Dataset https://www.metoffice.gov.uk/pub/data/weather/uk/climate/datasets/Tmin/date/UK.txt

Max Dataset https://www.metoffice.gov.uk/pub/data/weather/uk/climate/datasets/Tmax/date/UK.txt

Create time series objects

# Task 2 – R programming (5%)

# Task 3 – Exploratory Data Analysis (25%)

# Task 4 – Trend and Seasonality (25%)

Trend estimation

Trend model selection

Seasonality estimation

Seasonal model selection

Final combined model

Test model

# Task 5 – ARMA and Forecasting (25%)

Remove trend and seasonal model using the two models from previous tasks

ARMA model fit

Forecast of the two models

Forecasts Comparison

# Report (10%)

Leave this section blank for marking