Import all the needes packages

In [6]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import sklearn
import sklearn.datasets
#import tensorflow as tf
#import tensorflow_datasets as tfds
```

Let´s load a fes datasets from those available in sklean_dataset package

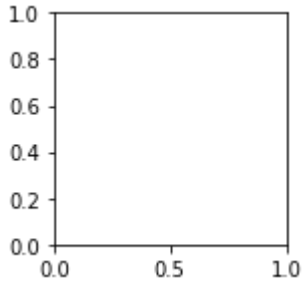
In [12]:
```
digits = sklearn.datasets.load_digits()
```

In [13]:
```
figure = plt.figure(figsize=(12,6))
for i in range (1,11):
    image = np.array(digits['images'][i], dtype='float')
    figure.add_subplot(2,5,i)
    plt.imshow(image, cmap='Blue')
plt.show
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-13-8508d62c7efc> in <module>
      3     image = np.array(digits['images'][i], dtype='float')
      4     figure.add_subplot(2,5,i)
----> 5     plt.imshow(image, cmap='Blue')
      6 plt.show

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\pyplot.py in i
mshow(X, cmap, norm, aspect, interpolation, alpha, vmin, vmax, origin, extent,
 shape, filternorm, filterrad, imlim, resample, url, data, **kwargs)
   2681         filternorm=filternorm, filterrad=filterrad, imlim=imlim,
   2682         resample=resample, url=url, **({"data": data} if data is not
-> 2683         None else {}), **kwargs)
   2684     sci(__ret)
   2685     return __ret

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\__init__.py in
inner(ax, data, *args, **kwargs)
   1599     def inner(ax, *args, data=None, **kwargs):
   1600         if data is None:
-> 1601             return func(ax, *map(sanitize_sequence, args), **kwargs)
   1602
   1603         bound = new_sig.bind(ax, *args, **kwargs)

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\cbook\deprecat
ion.py in wrapper(*args, **kwargs)
    367                 f"%(removal)s.  If any parameter follows {name!r}, they
"
    368                 f"should be pass as keyword, not positionally.")
--> 369         return func(*args, **kwargs)
    370
    371     return wrapper

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\cbook\deprecat
ion.py in wrapper(*args, **kwargs)
    367                 f"%(removal)s.  If any parameter follows {name!r}, they
"
    368                 f"should be pass as keyword, not positionally.")
--> 369         return func(*args, **kwargs)
    370
    371     return wrapper

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\axes\_axes.py
 in imshow(self, X, cmap, norm, aspect, interpolation, alpha, vmin, vmax, origi
n, extent, shape, filternorm, filterrad, imlim, resample, url, **kwargs)
   5667         im = mimage.AxesImage(self, cmap, norm, interpolation, origin,
 extent,
   5668                               filternorm=filternorm, filterrad=filterra
```

```
d,
-> 5669                                 resample=resample, **kwargs)
   5670
   5671         im.set_data(X)

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\image.py in __
init__(self, ax, cmap, norm, interpolation, origin, extent, filternorm, filterr
ad, resample, **kwargs)
    862             filterrad=filterrad,
    863             resample=resample,
--> 864             **kwargs
    865         )
    866

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\image.py in __
init__(self, ax, cmap, norm, interpolation, origin, filternorm, filterrad, resa
mple, **kwargs)
    205         """
    206         martist.Artist.__init__(self)
--> 207         cm.ScalarMappable.__init__(self, norm, cmap)
    208         self._mouseover = True
    209         if origin is None:

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\cm.py in __ini
t__(self, norm, cmap)
    216         self.norm = norm
    217         #: The Colormap instance of this ScalarMappable.
--> 218         self.cmap = get_cmap(cmap)
    219         #: The last colorbar associated with this ScalarMappable. May b
e None.
    220         self.colorbar = None

~\AppData\Local\Continuum\anaconda3\lib\site-packages\matplotlib\cm.py in get_c
map(name, lut)
    181         raise ValueError(
    182             "Colormap %s is not recognized. Possible values are: %s"
--> 183             % (name, ', '.join(sorted(cmap_d))))
    184
    185

ValueError: Colormap Blue is not recognized. Possible values are: Accent, Accen
t_r, Blues, Blues_r, BrBG, BrBG_r, BuGn, BuGn_r, BuPu, BuPu_r, CMRmap, CMRmap_
r, Dark2, Dark2_r, GnBu, GnBu_r, Greens, Greens_r, Greys, Greys_r, OrRd, OrRd_
r, Oranges, Oranges_r, PRGn, PRGn_r, Paired, Paired_r, Pastel1, Pastel1_r, Past
el2, Pastel2_r, PiYG, PiYG_r, PuBu, PuBuGn, PuBuGn_r, PuBu_r, PuOr, PuOr_r, PuR
d, PuRd_r, Purples, Purples_r, RdBu, RdBu_r, RdGy, RdGy_r, RdPu, RdPu_r, RdYlB
u, RdYlBu_r, RdYlGn, RdYlGn_r, Reds, Reds_r, Set1, Set1_r, Set2, Set2_r, Set3,
 Set3_r, Spectral, Spectral_r, Wistia, Wistia_r, YlGn, YlGnBu, YlGnBu_r, YlGn_
r, YlOrBr, YlOrBr_r, YlOrRd, YlOrRd_r, afmhot, afmhot_r, autumn, autumn_r, bina
ry, binary_r, bone, bone_r, brg, brg_r, bwr, bwr_r, cividis, cividis_r, cool, c
ool_r, coolwarm, coolwarm_r, copper, copper_r, cubehelix, cubehelix_r, flag, fl
ag_r, gist_earth, gist_earth_r, gist_gray, gist_gray_r, gist_heat, gist_heat_r,
gist_ncar, gist_ncar_r, gist_rainbow, gist_rainbow_r, gist_stern, gist_stern_r,
gist_yarg, gist_yarg_r, gnuplot, gnuplot2, gnuplot2_r, gnuplot_r, gray, gray_r,
hot, hot_r, hsv, hsv_r, inferno, inferno_r, jet, jet_r, magma, magma_r, nipy_sp
ectral, nipy_spectral_r, ocean, ocean_r, pink, pink_r, plasma, plasma_r, prism,
prism_r, rainbow, rainbow_r, seismic, seismic_r, spring, spring_r, summer, summ
```

```
er_r, tab10, tab10_r, tab20, tab20_r, tab20b, tab20b_r, tab20c, tab20c_r, terra
in, terrain_r, twilight, twilight_r, twilight_shifted, twilight_shifted_r, viri
dis, viridis_r, winter, winter_r
```



In [ ]: