## Entertainment: strategy behaviour design pattern

This program allows users to interact with and specify various forms of entertainment and using the strategy behaviour design pattern.

The user chooses the service they want by specifying a type, genre, and mode of interaction.

- Type: the medium on which the user would make new purchases to add entries, being hard-copy (physical) or digital
- Genre: the genre of the service being used, between nonfiction or fiction
- Interact: the way in which the user will interact with the service. This can be chosen between "watch" for a movie, "read" for a book, or "listen" for music.

For ".service" the options to set the type,genre,interaction are: HardCopy/Digital, Fiction/Non-Fiction, Read/Watch/Listen.

```
#enter the type, genre, interact for the service
Hobby.Service(HardCopy(), Fiction(), Read())

#displays the genre type
Hobby.GenreType()
#displays the Interaction type
Hobby.Int_Type()
#displays the entertainment type your buying
Hobby.CopyType()
```

The type can be changed through the setters.

```
#changing the genre type

Hobby.genre= Non_Fiction()

#displays the genre type
```

```
Hobby.GenreType()
```

Output would look like:

```
Entertainment is ready now

Genre is Fiction entertainment

Reading a book!

Buying a hard-copy

Changing genre using setter:

Genre is Non-Fiction entertainment
```

The Entertainment class has getters & setters for each property (type/genre/interact) of the service.

```
@property
def genre(self):
    return self._genre

@genre.setter
def genre(self, genre):
    self._genre = genre

@property
def interacting(self):
    return self._interacting

@interacting.setter
def interacting(self, interacting):
    self._interacting = interacting
```

The service itself is then defined using the properties as defined in their setters.

```
def Service(self, buying,genre,interacting=None):
    self._buying = buying
    self._genre = genre
    self._interacting = interacting
    print("Entertainment is ready now")

def GenreType(self):
    self._genre.genreType()

def CopyType(self):
    self._buying.buy()

def Int_Type(self):
    self._interacting.interact()
```