JS Advanced: Exam 19 December 2016

Problems for exam preparation for the "JavaScript Advanced" course @ SoftUni. Submit your solutions in the SoftUni judge system at https://judge.softuni.bg/Contests/375/.

Problem 3. Player (Simple Class)

Write a JavaScript class Player.

```
class Player {
    // TODO: implement this class
}
```

Each player holds nickname and list of scores . Implement the following features:

- **Constructor(nickName)** creates a player with given nickname.
- Method addScore(score) adds a score (as number) to the scores list. If passed argument is not a valid number or a string representation of a number, do nothing (ignore it).
- Accessor property **scoreCount** returns the total amount of scores in the list.
- Accessor property **highestScore** returns the highest score (number) in the list.
- Accessor property topFiveScore gets the top 5 score (ordered descending), print all scores available if the score's count is below or equal to 5.
- Method toString() returns the text representation of the player in the following format:
 - Player with only nickname:

```
{nickname}: []
```

Player with several scores (e.g. 450 and 200), **ordered** by descending:

```
{nickname}: [450,200]
```

Examples

This is an example how the **Player** class is **intended to be used**:

```
Sample code usage
let peter = new Player("Peter");
console.log('Highest score: ' + peter.highestScore);
console.log(`Top 5 score: [${peter.topFiveScore}]`);
console.log('' + peter);
console.log('Score count: ' + peter.scoreCount);
peter.addScore(450);
peter.addScore(200);
console.log('Highest score: ' + peter.highestScore);
console.log(`Top 5 score: [${peter.topFiveScore}]`);
console.log('' + peter);
peter.addScore(2000);
peter.addScore(300);
peter.addScore(50);
peter.addScore(700);
peter.addScore(700);
```

















```
console.log('Highest score: ' + peter.highestScore);
console.log(`Top 5 score: [${peter.topFiveScore}]`);
console.log('' + peter);
console.log('Score count: ' + peter.scoreCount);
console.log();
let maria = new Player("Maria")
    .addScore(350)
    .addScore(779)
    .addScore(180);
console.log('Highest score: ' + maria.highestScore);
console.log(`Top 5 score: [${maria.topFiveScore}]`);
console.log('' + maria);
```

```
Corresponding output
Highest score: undefined
Top 5 score: []
Peter: []
Score count: 0
Highest score: 450
Top 5 score: [450,200]
Peter: [450,200]
Highest score: 2000
Top 5 score: [2000,700,700,450,300]
Peter: [2000,700,700,450,300,200,50]
Score count: 7
Highest score: 779
Top 5 score: [779,350,180]
Maria: [779,350,180]
```

Submission

Submit your class Player as "JavaScript code (Mocha unit tests)".



















