Thursday Nov 7, 2024

In-class Handout

COSC 101C Intro to Computing I

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Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. What is the output of the following code snippet?

```
def func() -> None:
    x = [1,2,3]
    x2 = x + x
    d = {'x': x, 'x2': x2}
    x.append(4)
    d['x'].pop(0)
    print(x)
    print(x2)
    print(d)
func()
```

```
[2, 3, 4]
[1, 2, 3, 1, 2, 3]
{'x': [2, 3, 4], 'x2': [1, 2, 3, 1, 2, 3]}
```

2. What is the output of the following code snippet?

```
def getBracket(teams: dict, bracket: list) -> None:
    for i in bracket:
        if i in teams:
            print(f"Go {i}")
            print(f"Well done {teams[i]}")
        else:
            print(f"Booo {i}")

def main() -> None:
    teams = {'Loyola': 'Ramblers', 'Michigan': 'Wolverines',
             'Villanova': 'Wildcats', 'Kansas': 'Jayhawks'}
    bracket = ['Michigan', 'Villanova', 'Duke']
    getBracket(teams, bracket)
main()
```

3. For this question assume the below dictionary called movies. Write nested loops that prints every *genre* found under the movies dictionary.

```
movies = {"Casablanca": {
                "year": 1942,
                "genres": ["Drama", "Romance", "War"],
            },
          "Star Wars": {
                "year": 1977,
                "genres": ["Action", "Adventure", "Fantasy"],
            },
          "Groundhog Day": {
                "year": 1993,
                "genres": ["Comedy", "Fantasy", "Romance"],
```

```
            },
        }
def get_genre(movies: dict) -> None:
    for key in movies:
        movie = movies[key]
        for genre in movie["genres"]:
            print(genre)
get_genre(movies)
```