Assignment 1 Question 1

February 14, 2024

[12]:
```
#case 1: odd number

print('Enter a number')
x = int(input())
if x%2 != 0:
    print('Weird')
if x%2 == 0:
    if x>=2 and x<= 5:
        print('Not Weird')
    if x>=6 and x<= 20:
        print('Weird')
    if x>=20:
        print('Not Weird')
```

```
Enter a number
3
Weird
```

[13]:
```
#case 2: even number and greater than 20
print('Enter a number')
x = int(input())
if x%2 != 0:
    print('Weird')
if x%2 == 0:
    if x>=2 and x<= 5:
        print('Not Weird')
    if x>=6 and x<= 20:
        print('Weird')
    if x>=20:
        print('Not Weird')
```

```
Enter a number
24
Not Weird
```

[14]:
```
#case 3: even number and lies between 2 and 5
print('Enter a number')
x = int(input())
if x%2 != 0:
```

```
    print('Weird')
if x%2 == 0:
    if x>=2 and x<= 5:
        print('Not Weird')
    if x>=6 and x<= 20:
        print('Weird')
    if x>=20:
        print('Not Weird')
```

```
Enter a number
4
Not Weird
```

[15]:
```
#case 4: even number and lies between 6 and 20
print('Enter a number')
x = int(input())
if x%2 != 0:
    print('Weird')
if x%2 == 0:
    if x>=2 and x<= 5:
        print('Not Weird')
    if x>=6 and x<= 20:
        print('Weird')
    if x>=20:
        print('Not Weird')
```

```
Enter a number
8
Weird
```

Assignment 1 Question 2

February 14, 2024

[40]:
```
#case 1: single maximum score i.e one 100 in this case and two equal runner up␣
 ↪scores

list_of_scores = []
print('Enter the number of participants')
n = int(input())
print('Enter the scores of the participants')
for i in range(n):
    scores = int(input())
    list_of_scores.append(scores)
print(list_of_scores)
sorted_list = sorted(list_of_scores)
print(sorted_list)
```

```
Enter the number of participants
5
Enter the scores of the participants
19
25
100
80
80
[19, 25, 100, 80, 80]
[19, 25, 80, 80, 100]
```

[42]:
```
maximum_score = max(sorted_list)
for i in range(n):
    if sorted_list[i] < maximum_score:
        runner_up = sorted_list[i]
print(runner_up)

#This code checks each score of the list and compares it to the maximum score.
#Starting from the first score in the list, all the scores are compared to the
#maximum scores and the score just before the maximum score is printed
```

```
80
```

[43]:
```
#case 2: With multiple maximum scores i.e two 100s in this case
list_of_scores = []
print('Enter the number of participants')
n = int(input())
print('Enter the scores of the participants')
for i in range(n):
    scores = int(input())
    list_of_scores.append(scores)
print(list_of_scores)
sorted_list = sorted(list_of_scores)
print(sorted_list)

#This list has two highest scores which are 100 as you can see in the sorted␣
 ↪list
```

```
Enter the number of participants
5
Enter the scores of the participants
19
25
80
100
100
[19, 25, 80, 100, 100]
[19, 25, 80, 100, 100]
```

[45]:
```
maximum_score = max(sorted_list)
for i in range(n):
    if sorted_list[i] < maximum_score:
        runner_up = sorted_list[i]
print(runner_up)

#This code checks each score of the list and compares it to the maximum score.
#Starting from the first score in the list, all the scores are compared to the
#maximum scores and the score just before the maximum score is printed
```

```
80
```