Case Study-Numpy, Pandas, Matplotlib

1. Write a python program to create an array and covert to a desired dimension, as shown in picture.

```
Original array:
[[ 8 9 10]
[11 12 13]]
Reshaped array:
[[ 8 9]
[10 11]
[12 13]]
```

2. Create an array and extract particular set of elements from an array as shown in the picture.

```
Original array:
[[ 8 9]
[10 11]
[12 13]]
Sliced array:
[ 9 11]
```

3. Create a dataframe as shown below.

	Country	Rank
0	Russia	121
1	Colombia	40
2	Chile	100
3	Equador	130
4	Nigeria	11

- 4. Read the given data set and answer the following questions. Show the steps taken to produce your final answer.
 - a. Display the Glucose level and the Age for the samples having the index ranging from 45 to 60.
 - b. How many patients in the data are having the blood pressure level above 120?
 - c. Find the minimum and maximum value of insulin level in the data.
 - d. Create a histogram of "Age".
 - e. Create a scatter plot of "BMI" vs "Glucose"