**Assignment 2. (2 points for each question)**

Q1. Create a Series that contains the first 10 prime numbers. Write Python code to generate the numbers. It is ok to use a loop for this question.

Q2. Write code that selects the prime numbers at the odd positions (1,3,5, ..) of the series. Use the iloc method.

Q3. Change the index of the series to be the characters: ‘a’ through ‘j’.

Q4. Write code that selects the numbers at the odd positions (1,3,5, ..) of the series. Use the loc method.

Q5. Create the following data frame. Do not set an index (it should use the default index). The index is not shown in the picture below.

| **id** | **first\_name** | **last\_name** | **age** | **preTestScore** | **postTestScore** |
| --- | --- | --- | --- | --- | --- |
| **2** | Jason | Miller | 42 | 4 | 25 |
| **5** | Jason | Jacobson | 52 | 24 | 94 |
| **10** | Tina | Ali | 36 | 31 | 57 |
| **15** | Jake | Milner | 24 | 2 | 62 |
| **20** | Amy | Cooze | 73 | 3 | 70 |

Q6. Make id the index attribute.

Q7. Show the first names in the data frame.

Q8. Show the age of Tina.

Q9. What is the mean difference between the preTestSocre and postTestScore?

Q10. Make the postTestScore of Amy and Jake to be not-a-number.

Q11. Show all rows in the data frame, where all values are different from not-a-number.

Q12. Reset the index. Then make the first name and last name together to be the key.

Q13. Show the age of Tina using the new data frame.