Q1. Which keyword is used to create a function? Create a function to return a list of odd numbers in the range of 1 to 25.

Q2. Why args and **kwargs is used in some functions? Create a function each for args and **kwargs to demonstrate their use.

```
In [21]: # args is used to pass the n number of argument in the function
    # *kwargs is used for passe the n number of key, value pairs
    def test2(*args, **kwargs):
        return args, kwargs

In [25]: test2("vivek", "kkum", 1, 2, 3, a=5, b=6, c=10)
Out[25]: (('vivek', 'kkum', 1, 2, 3), {'a': 5, 'b': 6, 'c': 10})
```

Q3. What is an iterator in python? Name the method used to initialise the iterator object and the method

used for iteration. Use these methods to print the first five elements of the given list [2, 4, 6, 8, 10, 12, 14, 16,

18, 20].

Q4. What is a generator function in python? Why yield keyword is used? Give an example of a generator function.

```
ans:- a generator is a function that returns an iterator that produces a sequence of values when iterated over.
           yield keyword is used for the value of yield function send out of loop
In [73]: # example of generator function
In [84]: def fibn(n):
             a, b=0, 1
             for i in range(n):
                 yield a
                 a, b=b, a+b
In [85]: fibn(10)
         <generator object fibn at 0x00000203B60EC7B0>
Out[85]:
        for i in fibn(10):
             print(i)
         0
         1
         1
         2
         13
         21
```

Q5. Create a generator function for prime numbers less than 1000. Use the next() method to print the first 20 prime numbers.