

**Assignment -1**  
Python Programming

Assignment Date	19 September 2022
Student Name	Mr. Akash PM
Student Roll Number	711319CS008
Maximum Marks	2 Marks

**Question-1:**

Write a python program to test a given number is prime or not.

**Solution:**

```
num = int(input())
if num > 1:
    for i in range(2,num):
        if (num % i) == 0:
            print(num,"is not a prime
                        number")
            break
    else:
        print(num,"is a prime number")
```



The screenshot shows a Python IDE with a dark background. The code for the prime number program is visible in the editor, matching the solution provided. Below the editor, the console output shows the program running successfully, printing "5 is a prime number" and then displaying the exit message: "...Program finished with exit code 0 Press ENTER to exit console."

**Question-2:**

Write a program to generate odd numbers from m to n using while loop.

**Solution:**

```
n = int(input())
m = int(input())

while(n<=m):
    if(n%2!=0):
```

```
print(n,end=" ")
n+=1
```

```
1 n = int(input())
2 m = int(input())
3
4
5 while(n==m):
6     if(m%2!=0):
7         print(n,end=" ")
8         n+=1
9
10
```

input

```
10
30
11 13 15 17 19 21 23 25 27 29
...Program finished with exit code 0
Press ENTER to exit console.
```

### Question-3:

Write a Python program to display prime number series up to given number.

#### Solution:

```
num = int(input())
for n in range(2,num +
1):
    if n > 1:
        for i in range(2,n):
            if (n % i) == 0:
                break
        else:
            print(n,end = " ")
```

```
1 num = int(input())
2 for n in range(2,num + 1):
3     if n > 1:
4         for i in range(2,n):
5             if (n % i) == 0:
6                 break
7         else:
8             print(n,end = " ")
9
```

input

```
10
2 3 5 7
...Program finished with exit code 0
Press ENTER to exit console.
```

#### Question-4:

Write a Python program to generate Fibonacci series.

#### Solution:

```
n = int(input())
a = 0
b = 1
sum = 0
count = 1
while(count <= n):
    print(sum, end = " ")
    count += 1
    a = b
    b = sum
    sum = a + b
```



The screenshot shows a Python IDE with a dark theme. The editor window displays the following code:

```
1 n = int(input())
2 a = 0
3 b = 1
4 sum = 0
5 count = 1
6 while(count <= n):
7     print(sum, end = " ")
8     count += 1
9     a = b
10    b = sum
11    sum = a + b
12
```

Below the editor is a console window titled "input". It shows the output of the program for an input of 10:

```
10
0 1 1 2 3 5 8 13 21 34
...Program finished with exit code 0
Press ENTER to exit console
```