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

```
# Number to be checked for prime

n = 5

# Check if the number is greater than 1

if n > 1:
      for i in range (2, int(n/2) +1):
            if (n % i) == 0:
                  print (num, "is not a prime number")
            break
      else:
            print (n, "is a prime number")
# If the number is less than 1, it’s also not a prime number.
else:
      print (n, "is not a prime number")
```

2. write a program to generate odd number from m to n using loop

```
#include<stdio.h>
void main () {
 int num,m =20,n=40;
 clrscr ();
 printf("Print Odd Numbers in a given range m to n:\n");
 for (num = m; num <= n; num++) {
   if (num % 2 == 1)
     printf ("%d ", num);
 }
 getch();
}
```

3.write a python program to display prime number series up to given number

```
lower_value = int(input ("Please, Enter the Lowest Range Value: "))
upper_value = int(input ("Please, Enter the Upper Range Value: "))
print ("The Prime Numbers in the range are: ")
for number in range (lower_value, upper_value + 1):
    if number > 1:
        for i in range (2, number):
            if (number % i) == 0:
                break
        else:
            print (number)
```

4. write a python program to generate fibonacci series

```
#Python program to generate Fibonacci series until 'n' value
n = int(input("Enter the value of 'n': "))
a = 0
b = 1
sum = 0
count = 1
print("Fibonacci Series: ", end = " ")
while(count <= n):
  print(sum, end = " ")
  count += 1
  a = b
  b = sum
  sum = a + b
```