

Week 4 – Day 3: Coding Challenge

(Maximum marks - 15)

AttainuID: #50

Q-1) initialize a variable, and display a message whether that number is prime or not.

Ex: 1 is not a prime number | 17 is a prime number

Note: Also handle edge cases and bad inputs appropriately

Marks distribution:

Question 1 carry 15 marks

```
ans 1    #include <stdio.h>

        int n, flag=0;
        printf (enter a positive integer: ")
        scanf ("%d"&n);

0and1 are not prime numbers
change flag to 1 for non prime number
if (N==0|| n==1)
flag =1

for (i=2: i<=n|2; ++i) {
if n is divisible by i,then n is not prime
if (n% i ==0)    {
flag =1;
break=1;
}

{
flag is 0 for prime number. ", n);
else
primwf(%d is not a prime number .", n);
return 0:
}
```