## **Assignment 4**

```
Question 1
 let n = user input;
 let sum = 0;
  let count = 0;
  while count < n :
   count + +;
     sum = sum + count;
  return sum
 Question 2
Print "Enter a positive number: "
 let x = user input 1
 if x < 1.
 prompt again
 print Enler another positive number:
 let y = user input 2
  if 4<1:
   prompt again
 while (x | = y).
   if (x > y).
    x = x - y
   y = y-x
 return x
 Question 3
let n = user input
                                                \star assumption: f:p(T) = 0
                                                                  Fib(2) = 1
îf n<2:
  return "please enter a number >= 2"
                                                                  fib(3) = 1
                                                                   fild4) = 2
   prompt again
e/se:
  1et x=0
  let Y=1
  lef Z
  for i=2; i<n; i++: # because fib(1)=0, fib(2)=1, etc.
     Z = X +7
   X = Y
```

## Question 4

let n= user input

if (n < 0):  $n = 2^{32} + n$  # convert regative n to 2's complement representation

let hex-rep = onvert To Hex(n)

print ()x + format As 8 Digit Hex (hex-rep)