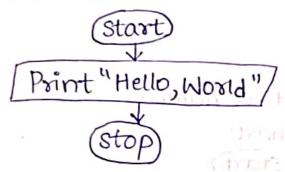
## C Programs

1) Print "Hello, World".

Algorithm:

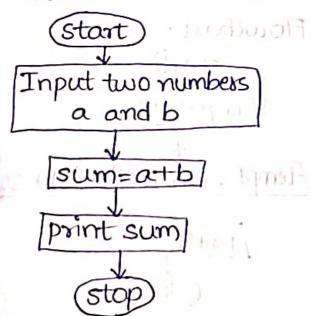
- i)start
- ii) print (Hello, World"
- iii) Stop 🖟

Flowchart:



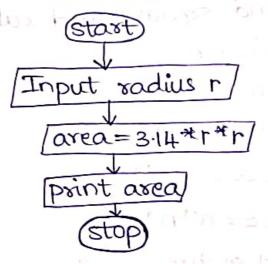
- a) Add two numbers. Algorithm:
  - i) start
  - ii) Input two numbers a and b
  - iii) sum=a+b
  - iv) print sum
  - v) stop

Flowchart:



- 3) Find area of circle. Algorithm:
- i) Start
- ii) Input radius r
- iii) area = 3·14 \* r\*r
- iv) print area
- v) stop

Flowchart:



- 4) Find average of three numbers Algorithm:
- Convest cel startilis talmenheit.
  - ii) Input a, b, c
  - iii) avg = (a+b+c)/3
    iv) print avg.

  - (v) stop Flowchart:

(Start) Input a, b, c avq = (a+b+c)/3

> Sto Paint avait

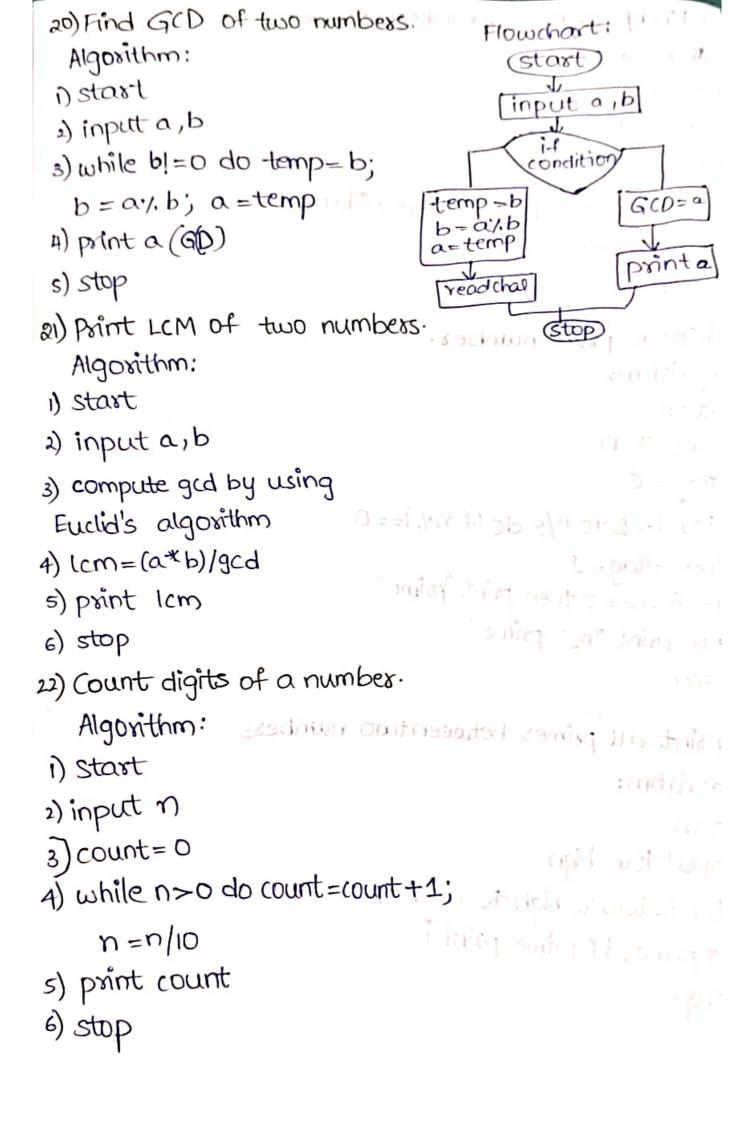
to and the plant of the state of 36) Reverse a string Algorithm: 1) start 2) input string s 3) rev=" 4) for i from length(s) - 1 down to 0 do rev=rev+s[i] 5) print rev 6) stop tendany punalani put 37) Check palindrome string and a reference Algorithm: 1) start ra7 h. Min Dinput s 1-(+ You 1914E) \* 7 = [] 3) if s == reverse(s) then print "Palindrome" else print "Not Palindrome" + Fire ASCII value of a charactes 4) stop unito il 38) Count words in a sentence Algorithm: Campani Sty (-157 th) Trivi i) start 2) input string 3) count = 1 (if string not empty) Count number of voicer 4) for each character if it is and or post space then count = count+1 print count Date of the last a trong stop profit in the second of the second we freely be as the the raid territ

```
32) calculate simple interest.
                                    Expense in morning
 Algorithm:
1) start
2) input P,R,T
3) SI = (P*R*T)/100
4) print SI
                               1112 horazan hil i book
s) stop
33) Find compound interest.
                               ) if the perfections string
 Algorithm:
                                               amount of
i) start
2) input P, R, T
3) CI = P* ((1+R/100)^T)-P
                                  abilities serves = at 1
4) print CI
                                      ode amademical t
s) stop
                                      t NET Palipantine
34) Find ASCII value of a character
 Algorithm:
                              runt woods in a sentince
i) start
2) input ch
3) print int (ch) (ASCII value)
4) stop
                               Adding to 1 of the
35) Count number of vowels in a string
                                             afer Tip-
 Algorithm:
                               there can I don't +1
 i) start
2) input string
                                                 TIVIT
3) count = 0
4) for each character in string
     if character in [a,e,ip,u,A,E,1,0,U]
  then count = count + 1; print count
 s) stop
```

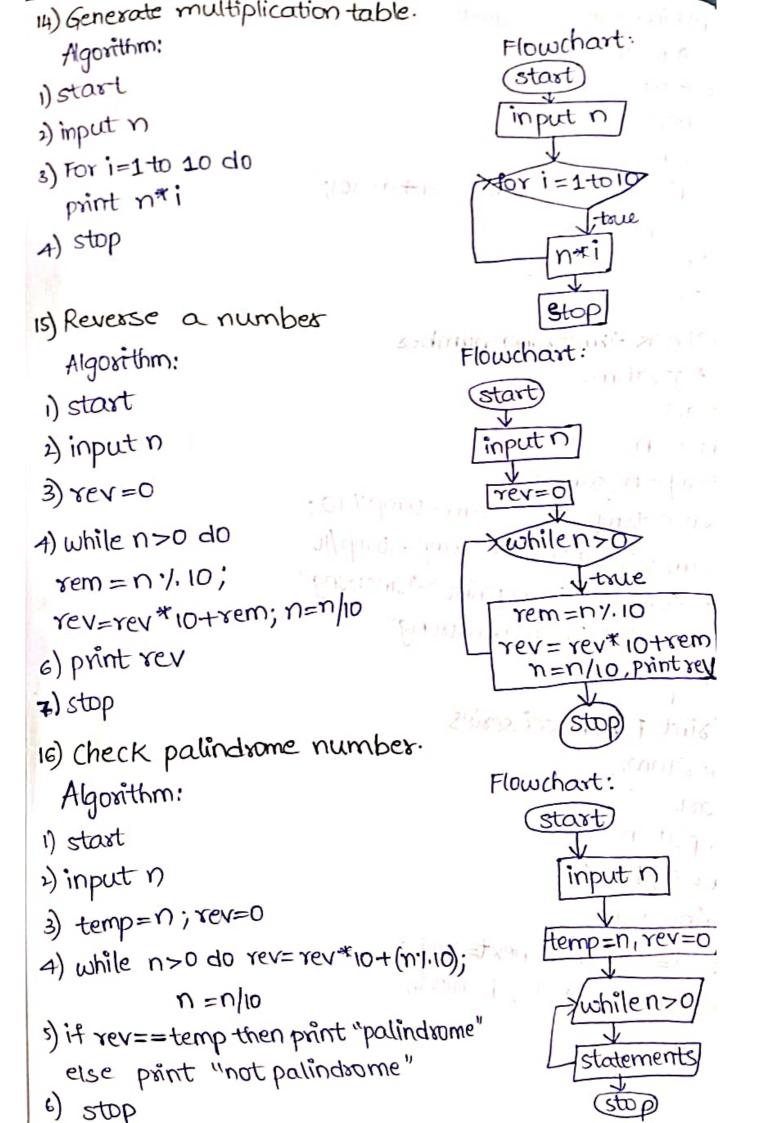
```
29) Sum of even numbers upto No
  Algorithm:
  1) start
  2) input n
  3) sum = 0
 4) for i=2 to n step 2
   do sum=sum+i
  5) print sum
  6) stop
6
 Algorithm:
  1) start
  2) input n
  3) for i=1 ton doifn'.i==0
  then point i
  4) Stop
 31) Find strong number
  Algorithm:
H
  1) start
  2) input n
  3) temp=n;sum=0
  4) while temp>0 do rem=temp1.10;
  sum = sum + factorial (rem); temp=temp/10
H,
  s) if sum==n then print "strong number"
  else print "not a strong number"
$
  c) stop
```

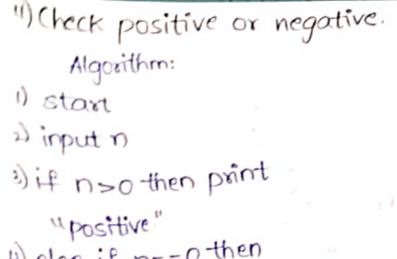
26) Find largest among three numbers. Algosithm: 1) start 2) input a, b, c 3) largest = a 4) if b>largest then largest=b 5) if c > largest-then largest=c 6) print largest 7) stop er) Check vowel or consonantimum o to exchange in Algorithm: i) Start 2) input ch is after dolf blisso 3) if ch in [a,e,i,o,u, A,E,1,0,U] 1 / 71351 then print "vowel" else print "consonant" 4) stop 28) Check alphabet, digit or special character. Algorithm; 1) start 2) input ch 3) if 'A' <= ch<= Z' or a <= ch<= Z' then point "alphabet" 4) else if '0'z=chz='9'then print "digit" 5) else print "special character e) stop

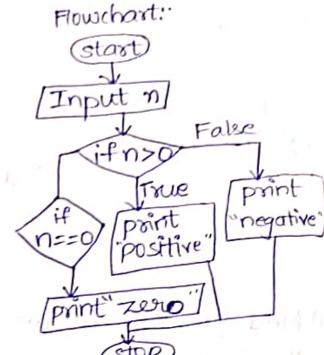
23) Find power of a number Algorithm! 1) Start 2) input base, exp 1 1111 1 3) pow=1 4) For i= 1 to exp do pow=pow\*base 5) print pow 6) stop Tryling out to Mon to 24) Check prime number. Algorithm: i) start 2) input n 3) flag = 0 4) For i=2 to 1/2 do if ny. i==0 then flag=1 5) if flag == 0 then print "prime" else print "not prime" 6) stop of digits of a compet 25) print all primes between two numbers. Algorithm: i) start 2) input low, high 3) For i=low to high do check if is prime, if prime print i 4) stop



```
Ship route me there white the
 17) Find sum of digits.
   Algorithm:
 1) Start
 2) input n
 3) sum = 0
4) while n> 0 do sum=sum+ (n/10);
                                            18,7 4.37
      n=n/10
 5) print sum
6) stop
                                 BELLEVE O DESTREA
 18) Check Armstrong number
   Algorithm:
                                               ISDT -
i) start
2) input n | in home
 3) temp=n; sum=0
1) while temp=0 do rem=temp1.10;
sum = sum+ rem^3; temp = temp/10
                                        Ob O SIR Wille
5) if sum == n then print "Armstrong"
                                        in Wir : mai
  else print "not armstrong"
                                            VOI HATTI
6) stop
19) Print Fibonacci series
                         theck pathodrone numbers.
 Algorithm:
                                           . will aster.
i) start
2) input n
3) a = 0; b = 1
                                             ( hospill
print a,b
                                     Dara, Gagnal (
s) For i=3 ton do next=a+b;
 print next; a=b; b=next;
                     "now who tring was your is - - ver try
e) stop
```







4) else if n==0 then
print "zexo" -

s) else print "negative"

6) stop

n) Find sum of first N natural numbers.

Agorithm: Flowchart:

- i) stort
- 2) input n
- 3) sum = 0
- 4) For i=1 to n do sum = sum+ i
- s) print sum
- 6) stop

13) Find factorial of a number. Algorithm:

- i) stort
- e) input n
- z)-fact=1
- for i=1-ton do fact = fact\*i
- s) print fact
- 6) Stop

