ALGORITHM

# Program – 1

Step 1 : Start

Step 2 : Read string STR

Step 3 : PTR = address of STR

Step 4 : LEN = Length of STR

Step 5 : I = LEN

Step 6 : Print "Reverse of the string is"

Step 7 : Repeat Steps 8&9 while I>=1

Step 8 : Print content of (PTR+I)

Step 9 : I=I-1

Step 10: Stop

# Program – 2

Step 1 : Start

Step 2 : Read string TEXT as base string and string PAT as pattern to find.

Step 3 : A = Length of PAT

Step 4 : B = Length of TEXT

Step 5 : I = 0, FLAG=0

Step 6 : While I <= B-A repeat steps 7 to 12 else goto step 13

Step 7 : J = 0

Step 8 : While J < A repeat steps 9 and 10

Step 9 : If TEXT[I+J] is not equal to PAT[J] then goto step 11

Step 10: J=J+1

Step 11: If j = a then FLAG=1 and Print "Pattern found at position", I+1

Step 12: I = I+1

Step 13: If FLAG=0 then Print "Pattern not found!"

Step 14: Stop

# Program – 3

Step 1 : Start

Step 2 : Read R,C

Step 3 : Read Elements of Array ARR[R][C]

Step 4 : Read ITEM

Step 5 : I=0

Step 6 : While I<R repeat steps 7 to 13 else go to step 14

Step 7 : J=0

Step 8 : While J < C repeat steps 9 to 12 else goto step 13

Step 9 : If ARR[I][J]=ITEM

Step 10 : Print "Item found at", I, J

Step 11 : COUNT = COUNT+1

Step 12 : J = J+1

Step 13 : I=I+1

Step 14 : If COUNT=0 then Print "Item not found"

Step 15 : Stop

# Program – 4

Step 1 :

Step 2 :

Step 3 :

Step 4 :

Step 5 :

Step 6 :

Step 7 :

Step 8 :

Step 9 :

Step 10 :

Step 11 :

Step 12 :

Step 13 :