DSA LAB PROGRAM OUTPUTS
Program 1:
OUTPUT:

1.CREATE AN ARRAY
2.DISPLAY AN ARRAY
3.INSERT AN ELEMENT INTO AN ARRAY
4.DELETE AN ELEMENT
5.EXIT

ENTER YOUR CHOICE-1
ENTER THE SIZE OF ARRAY
5
ENTER THE ARRAY ELEMENTS
10 20 30 40 50
ENTER YOUR CHOICE-2
ARRAY ELEMENTS ARE
10 20 30 40 50
ENTER YOUR CHOICE-3
ENTER THE NUMBER TO BE INSERTED
60
ENTER THE POSITION TO INSERT THE ELEMENT
1
ENTER YOUR CHOICE-2
ARRAY ELEMENTS ARE
60 10 20 30 40 50
ENTER YOUR CHOICE-4
ENTER THE ARRAY ELEMENT POSITIONS
4
DELETED ELEMENT IS 30
ENTER YOUR CHOICE—5
EXIT

PROGRAM—2
OUTPUT:
ENTER A MAIN STRING
GOOD MORNING
ENTER A PATTERN STRING
GOOD
ENTER A REPLACING STRING
BAD
PATTERN FOUND
THE RESULTANT STRING IS : BAD MORNING
ENTER A MAIN STRING
GOOD MORNING
ENTER A PATTERN STRING
BAD

ENTER A REPLACING STRING
GOOD
PATTERN NOT FOUND!

PROGRAM--3
OUTPUT:
STACK OPERATIONS
1.PUSH
2.POP
3.DISPLAY
4.PALINDROME
5.EXIT
ENTER YOUR CHOICE
1
ENTER ELEMENT TO PUSH
1
ENTER YOUR ELEMENT TO PUSH
2
ENTER YOUR CHOICE
1
ENTER ELEMENT TO PUSH
3
ENTER YOUR CHOICE
2
POPPED ITEM IS 3
ENTER YOUR CHOICE
3
ELEMENT AT STACK ARE
STACK[1] =2
STACK[0] =1
ENTER YOUR CHOICE
4
STACK CONTENTS ARE NOT PALINDROME
ENTER YOUR CHOICE
5
(EXIT)

PROGRAM--4
OUTPUT:
1. a+b*d/(e+f)-g
INFIX EXPRESSION IS:
a+ b*d/(e+f)-g
POSTFIX EXPRESSION IS:
abd * ef+/+g-

2.(2+3^2) + (5*4/2-8%2)
INFIX EXPRESSION IS:
(2+3^2) + (5*4/2-8%2)
POSTFIX EXPRESSION IS:
232^+54*2/82%-+

PROGRAM –5
OUTPUT:
APPLICATION OF STACK
1.EVALUATION OF POSTFIX EXPRESSION
2.TOWER OF HANOI
3.EXIT
ENTER YOUR CHOICE
1
ENTER A VALID POSTFIX EXPRESSION
232^+54*2/82%-+
THE RESULTANT POSTFIX EXPRESSION
232^+54*2/82%-+ IS 32772
ENTER YOUR CHOICE:
2
ENTER NUMBER OF DISKS
3
MOVE DISK 1 FROM S TO D
MOVE DISK 2 FROM S TO A
MOVE DISK 1 FROM D TO A
MOVE DISK 3 FROM S TO D
MOVE DISK 1 FROM A TO S
MOVE DISK 2 FROM A TO D
MOVE DISK 1 FROM S TO D

NUMBER OF MOVES IS 7

PROGRAM—6
OUTPUT:

CIRCULAR QUEUE OPERATION

1. ENQUEUE
2.DEQUEUE
3.DISPLAY
4.EXIT

ENTER YOUR CHOICE
1
ENTER THE ELEMENT TO BE INSERTED
L
ENTER YOUR CHOICE

1
ENTER THE ELEMENT TO BE INSERTED
U
ENTER YOUR CHOICE
1
ENTER THE ELEMENT TO BE INSERTED
U
ENTER YOUR CHOICE
1
ENTER THE ELEMENT TO BE INSERTED
i
ENTER YOUR CHOICE
1
ENTER THE ELEMENT TO BE INSERTED
i
ENTER YOUR CHOICE
3
ELEMENTS OF THE QUEUE ARE
LUCii

ENTER YOUR CHOICE
2
DELETED ELEMENT IS →L

ENTER YOUR CHOICE
2
DELETED ELEMENT IS →U

ENTER YOUR CHOICE
1
ENTER THE ELEMENT TO BE INSERTED
S
ENTER YOUR CHOICE
1
ENTER THE ELEMENT TO BE INSERTED
C

ENTER YOUR CHOICE
3
ELEMENTS OF THE QUEUE ARE :
CiiSC

ENTER YOUR CHOICE
4
(EXIT)