Essetial Na. 7 and it delet but the men grad at the Trees a count is break franchis which agents men a particular order in which operation of between is no order in Print is the end. A good example of a queue is any for the airport primer hearth & question in Application of ouese is used on rotal which you had pletarborn bedderary so at suar inst potes two takes is rained or present and ever ever fortament for this principles. elgithm prano belant is esmadel a rotus ! Heid priminaria un ebuloni espras seruna priluberted will ylawararrylo beingthant is stab now (ma processor santos entresas amenas a file O. add(30) Q.add(40) O.add(50) Q.add(60) Q.add(70)

Print["Name Mayuresh Rane" |

Print["fall no. 1713"]

Class Queue

global f

def __init__(self):
 self f=0

 self f=0

 self f=0

 self f=0

 self f=n1:
 self f<n-1:
 print["Queue is full")

 def remove(self):
 n=len(self.1)

 if self f<n-1:
 print["Queue is empty")

Q=Queue()

Q.add(30)

Q.add(60)

Q.add(60)

Q.add(60)

Q.add(70)

```
print("NAME
class node:
    global data
    global mext
    def __init__ (self,item):
        self.data=item
        self.next=None
        skedlist:
42
                                                                                                                       8-raitras
           global s
def __init__(self):
    self.s=None
def addL(self,item):
    newnode=node(item)
                                                                                                    entructa
                if self.s==None:
self.s=newnode
                 head=self.s
                 while head.next!=None:
                     head=head.next
                 head.next=newnode
           def addB(self,item):
                                                                                                        viends no bollar acab
               newnode=node(item)
if self.s==None:
                     self.s=newnode
               else:
                   newnode.next=self.s
                    self.s=newnode
          def display(self):
                 while head.next!=None:
                   print (head.data)
                     head=head.next
    print (head.data)
start=linkedlist()
    start.addL(13)
    start.addL(85)
    start.addL(90)
    start.addL(88)
    start.addB(44)
    start.addB(46)
                                                                                              NOTIONALD LITT CANDITY
   start.addB(29)
   start.display()
   ---OUTPUT---
  NAME : Mayuresh Rane
ROLL NO : 1713
                                                                                                                            Made
                                                                                                                        Data
  44
                                                                                                                                    retrial
```

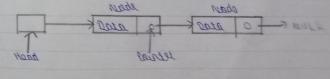
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NAME : Mayuresh Rane print("The evaluated value is:", r) s="4 6 8 * + " ---OUTPUT--r=evaluate(s) print("NAME : Mayuresh Rane \nROLL NO : 1713") def evaluate(s): return stack.pop() ---PROGRAM--for i in range (n): stack=[] n=len(k) k=s.split() elif k[i] == ' * '; elif k[i] == '-': elif k[i] == '+': if k[i].isdigit(): stack.append(int(b)/int(a) b=stack.pop() a=stack.pop() stack.append(int(b) *int(a)) b=stack.pop() a=stack.pop() stack.append(int(b)-int(a)) b=stack.pop() stack.append(int(k[i])) a=stack.pop() stack.append(int(b)+int(a)) b=stack.pop() a=stack.pop()

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The evaluated value is: 52

ROLL NO : 1713

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5=" 4 6 8 4 + "

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8 0 0

6+ a = 4+48 = 52

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##Quick sort##
print("Mayuresh Rane") Print("Roll no.--1713") def quickSort(alist): quickSortHelper(alist,0,len(alist)-1) def quickSortHelper(alist,first,last): if first<last: splitpoint=partition(alist, first, last) quickSortHelper(alist, first, splitpoint-1) quickSortHelper(alist,splitpoint+1,last) def partition(alist, first, last): pivotvalue=alist[first] leftmark=first+1 rightmark=last done=False while leftmark<=rightmark and alist[leftmark]<=pivotvalue: while not done leftmark=leftmark+1 while alist[rightmark]>=pivotvalue and rightmark>=leftmark rightmark=rightmark-1 if rightmark<leftmark: done=True else: temp=alist[leftmark] alist[leftmark]=alist[rightmark] alist[rightmark]=temp temp=alist[first] alist[first]=alist[rightmark] alist[rightmark]=temp return rightmark alist=[42,54,45,67,89,66,55,80,100] quickSort(alist) print(alist) Output:

is alab newly est trad at 300 disulance of mish tiesd sino nurable prited treingle no di trassino: maen where the a coming of contraction the lang do evenede no exist il cours ou truesso yallo ray or distillad · tania Evanisties thought man are next trag do braileer Lyerre i Almayo cier file that some ab pinter roung do denorale that xing symulth is comis so everale nowner o xis (6 touis do raiton xxis (s . It restructs is transmiss in Educate yes not. Surget at partitions is given an array and is the my & yello helpad is neithern therea) therea) disorde seeding the try S. X sudded disserbly solvente benis is enab ed bloods dist ILA X rego

Roll no.--1713 [42,45,54,55,66,89,67,80,100]

Mayuresh rane

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class Node: print("roll:1713") Print("Name:Mayuresh Rane) class Tree: ## Binary Tree and Traversal ## def add(self,val): global root def __init__(self): global I global r def __init__(self,I): global data if self.root==None: self.root=None self.r=None self.data=l self.l=None self.root=Node(val) newnode=Node(val) while True: h=self.root if newnode,data < h.data: if h.I!=None: h=h.l h.l=newnode break print(newnode.data, "added on left of ",h.data) T.add(60) def preorder(self,start): T=Tree() T.add(80) def inorder(self,start) T.add(70) T.add(10) T.add(100) def postorder(self,start) if start!=None: T.add(85) T.add(78 if start!=None: T.add(15 T.add(88) print(start.data) self.preorder(start.l) if start!=None: self.preorder(start.r) print(start.data) self.inorder(start.l) self.inorder(start.r) self.inorder(start.l) self.inorder(start.r) print(start.data) if h.r!=None h=h.r h.r=newnode print(newnode.data, added on right of 'h data)

print("preorder")

T.preorder(T.root)

print("inorder")

print("postorder(T.root)

T.postorder(T.root)

T.postorder(T.root)

Output:

Name:Mayuresh Rane

Roll1713

Rolls added on left of 100

Rolls added on left of 50

SS added on right of 80

SS added on left of 85

10 added on left of 85

12 added on left of 85

15 added on left of 85

15 added on left of 85

10 added on left of 15

10 added on left of 15

10 added on left of 15

10 added on left of 85

10 added on left of 15

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##MERGE SORT##
Print("Name Mayuresh rane")
Print("roll: 1713")

def sort(arr,l,m,r) n1=m-i+1 L=[0]*(n1) n2=r-m for i in range(0,n1) R=[0]*(n2) for j in range(0,n2) while i<n1 and j<n2 L[1]=arr[1+1] if L[i]<=R[j]: R[j]=arr[m+1+j] def mergesort(arr,l,r): while i<n1: arr[k]=R[J] arr[k]=L[i] arr=[12,23,34,56,78,45,86,98,42] j+=1 k+=1 while j<n2: arr[k]=L[i] 1+=1 mergesort(arr,0,n-1) n=len(arr) print(arr) K+=1 m=int((1+(r-1))/2) j+=1 K+=1 arr[k]=R[J] mergesort(arr,l,m) sort(arr,1,m,r) mergesort(arr,m+1,r)

Name: Mayuresh rane Roll 1713

[12, 23, 24, 56, 75, 45, 86, 122, 23, 25, 26, 26, 42, 45, 78,

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