PSG COLLEGE OF TECHNOLOGY
DEPARTMENT OF COMPUTER APPLICATIONS
23MX13- DATA STRUCTURES
TUTORIAL-2 ANSWERS

1)
```
void count(){

  struct node* temp = head;

  int count=0;

  while(temp != NULL){

    temp = temp->next;

     count++;

  }   printf("\n Total no. of nodes is
%d",count);

}
```

2)
```
/*count1- number of nodes in list1
count2- number of nodes in list2
temp1- position of the last node in the
list
temp2- position of the last node in the
list
head1- head position of list1
head2- head position of list2*/
if (count1>count2)
{
  temp1->next=head2;
else{
temp2->next=head1;
}
```

3)
```
void reverse()
  {
     node* temp = head;
     node *prev = NULL, *next = NULL;
     while (temp != NULL) {
        next = temp->next;
        temp->next = prev;
        prev = temp;
        temp = next;
     }
     head = prev;    }
```

4)
```
struct node* temp = head;
while(temp->next->next!=NULL){
 temp = temp->next;
}
temp->next = NULL;
```

5)
```
for(int i=2; i< position; i++) {
 if(temp->next!=NULL) {
   temp = temp->next;
 }
}

temp->next = temp->next->next;
```

6)
```
void push (int stack[ ] , int x , int n){
if ( top == n-1 //If stack is full
print( "Stack Overflow") ;
else
top = top +1 ;
stack[ top ] = x ;
}
void pop ( ){
if( isEmpty ( ) )
print("Stack Underflow " ):
else
top = top - 1 ;
}
```