DAILY ONLINE ACTIVITIES SUMMARY

Date:	**20 MAY 2020**	**Name:**	**Rani M.D**
Sem & Sec	**VI & B**	**USN:**	**4AL17CS075**

Online Test Summary

Subject	**System Software and Compiler design**		
Max. Marks	**30**	**Score**	**21**

Certification Course Summary

Course	**Machine learning with python**		
Certificate Provider	**Cognitiveclass**	**Duration**	**10 hours**

Coding Challenges

Problem Statement:

Program1

Write a C Program to Reverse a Linked List in groups of given size. Test Case 1: If a linked listis: 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 The value of size k is 2 Then the linked list looks like: 2 → 1 → 4 → 3 → 6 → 5 → 8 → 7

Test Case 2: If a linked listis: 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8 The value of size k is 3 Then the linked list looks like: 3 → 2 → 1 → 6 → 5 → 4 → 8 → 7

Program2

Java Program which illustrates how to get column properties from ResultSet using ResultSetMetaData ResultSetMetaData is an object that can be used to get information about the types and properties of the columns in a ResultSet object. Below example shows how to get ResultSet column properties using ResultSetMetaData object.

Program3

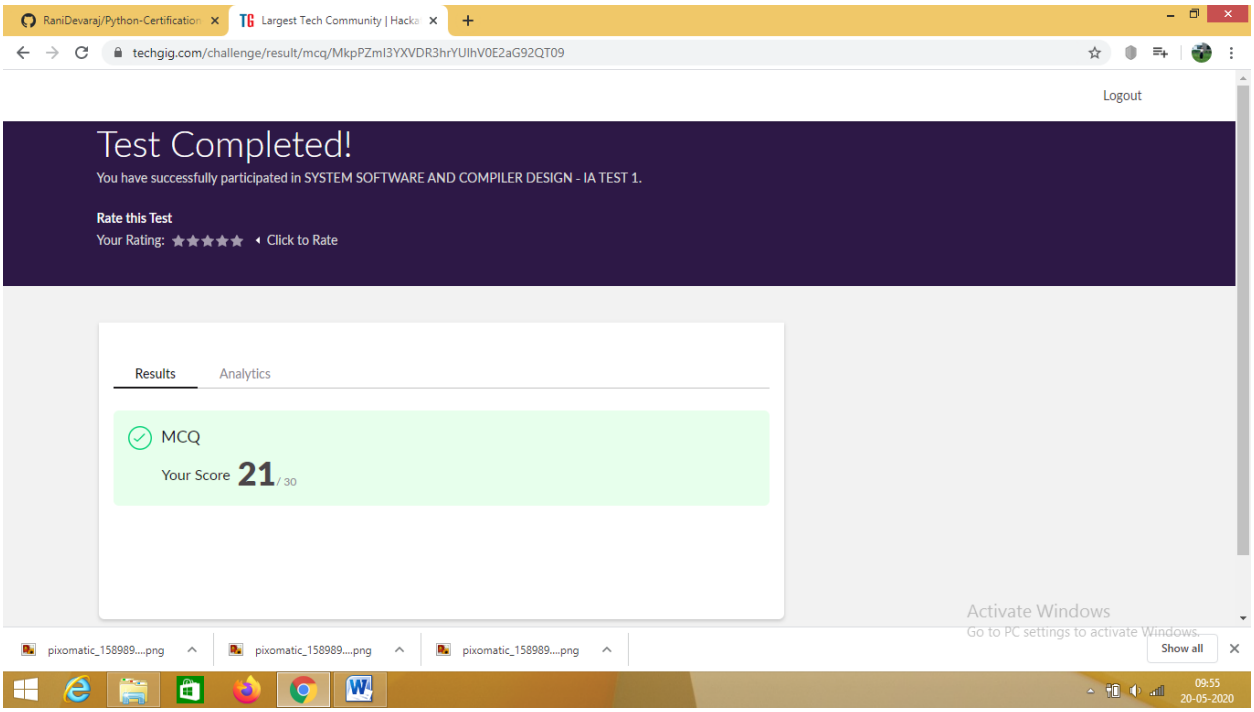
Python Program to Exchange the Values of Two Numbers using ^ (exclusive or operator)

Program4

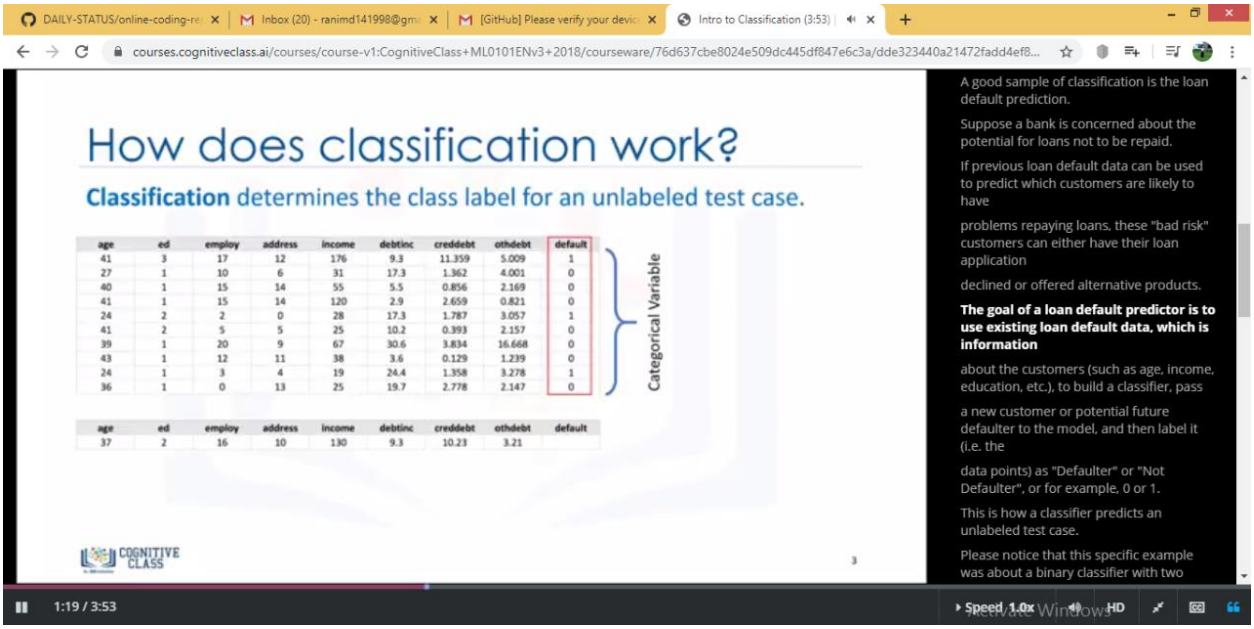
Python Program to Reverse a Given Number This is a Python Program to reverse a given number. Problem Description The program takes a number and reverses it and store it in another variable and show it

Status: DONE	
Uploaded the report in Github	**YES**
If yes Repository name	**DAILY STATUS,QUARENTINE CODING,PYTHON CERTIFICATION**
Uploaded the report in slack	**YES**

Online Test Details: (Attach the snapshot and briefly write the report for the same)



Certification Course Details: (Attach the snapshot and briefly write the report for the same)


DAILY-STATUS/online-coding-re
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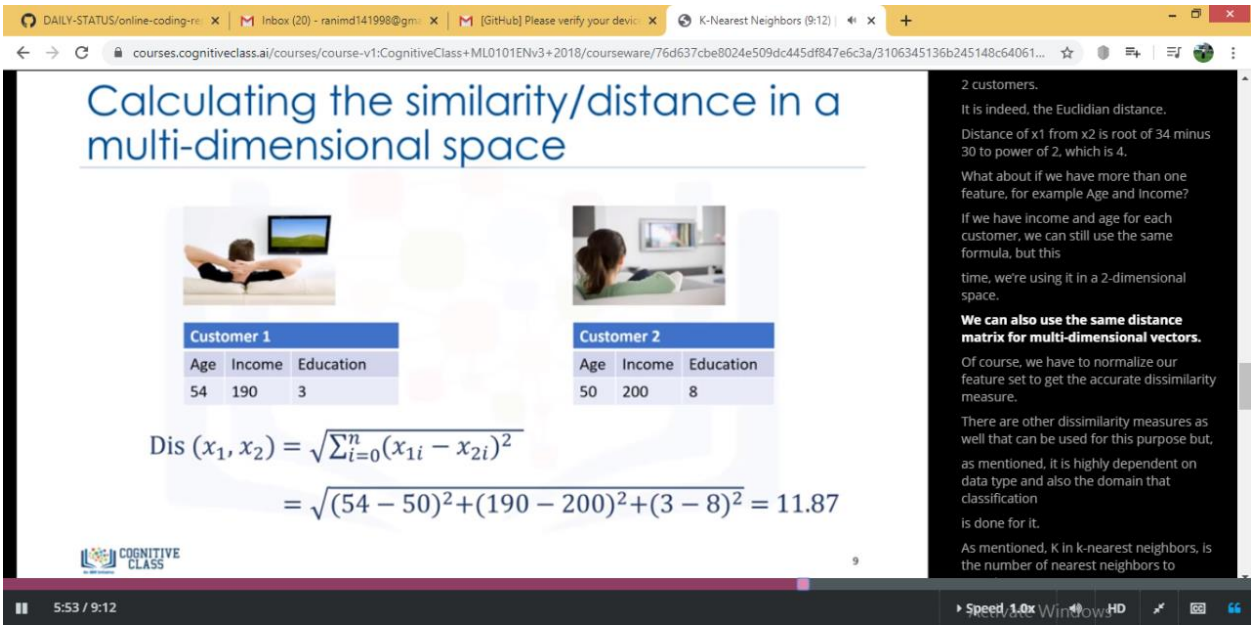
[GitHub] Please verify your devic
Intro to Classification (3:53)
courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/76d637cbe8024e509dc445df847e6c3a/dde323440a21472fadd4ef8...
How does classification work?
Classification determines the class label for an unlabeled test case.
age ed employ address income debtinc creddebt othdebt default
41 3 17 12 176 9.3 11.359 5.009 1
27 1 10 6 31 17.3 1.362 4.001 0
40 1 15 14 55 5.5 0.856 2.169 0
41 1 15 14 120 2.9 2.659 0.821 0
24 2 2 0 28 17.3 1.787 3.057 1
41 2 5 5 25 10.2 0.393 2.157 0
39 1 20 9 67 30.6 3.834 16.668 0
43 1 12 11 38 3.6 0.129 1.239 0
24 1 3 4 19 24.4 1.358 3.278 1
36 1 0 13 25 19.7 2.778 2.147 0
Categorical Variable
age ed employ address income debtinc creddebt othdebt default
37 2 16 10 130 9.3 10.23 3.21
COGNITIVE CLASS
3
A good sample of classification is the loan default prediction.
Suppose a bank is concerned about the potential for loans not to be repaid.
If previous loan default data can be used to predict which customers are likely to have
problems repaying loans, these "bad risk" customers can either have their loan application
declined or offered alternative products.
The goal of a loan default predictor is to use existing loan default data, which is information
about the customers (such as age, income, education, etc.), to build a classifier, pass
a new customer or potential future defaulter to the model, and then label it (i.e. the
data points) as "Defaulter" or "Not Defaulter", or for example, 0 or 1.
This is how a classifier predicts an unlabeled test case.
Please notice that this specific example was about a binary classifier with two
1:19 / 3:53
Speed 1.0x
HD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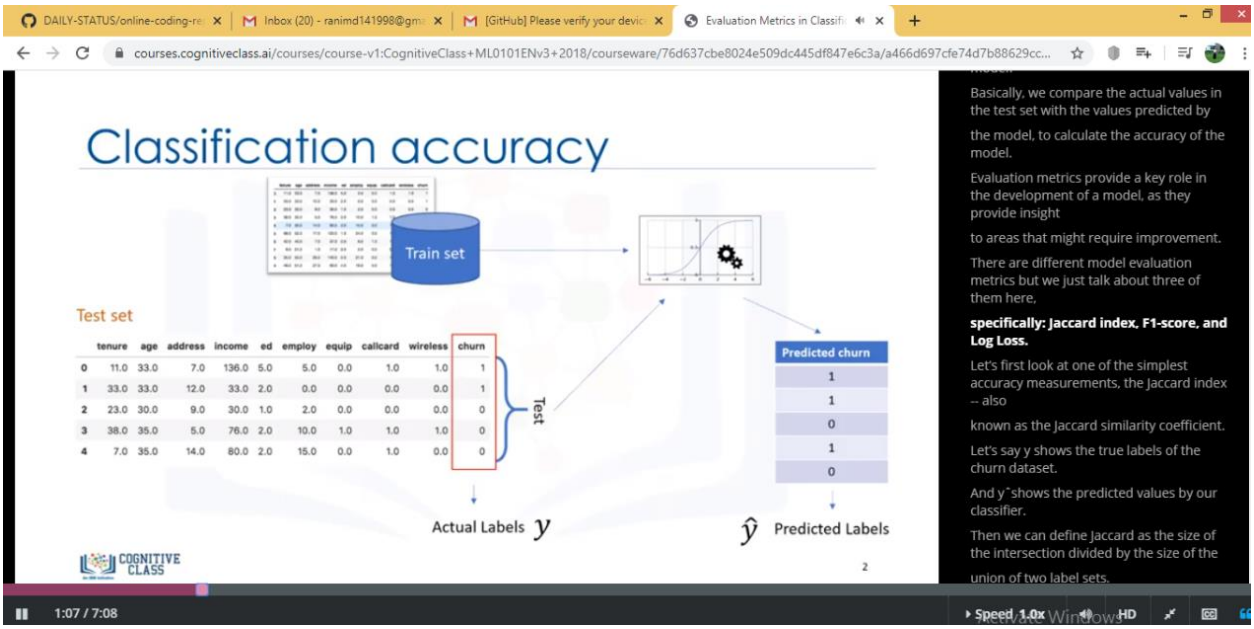
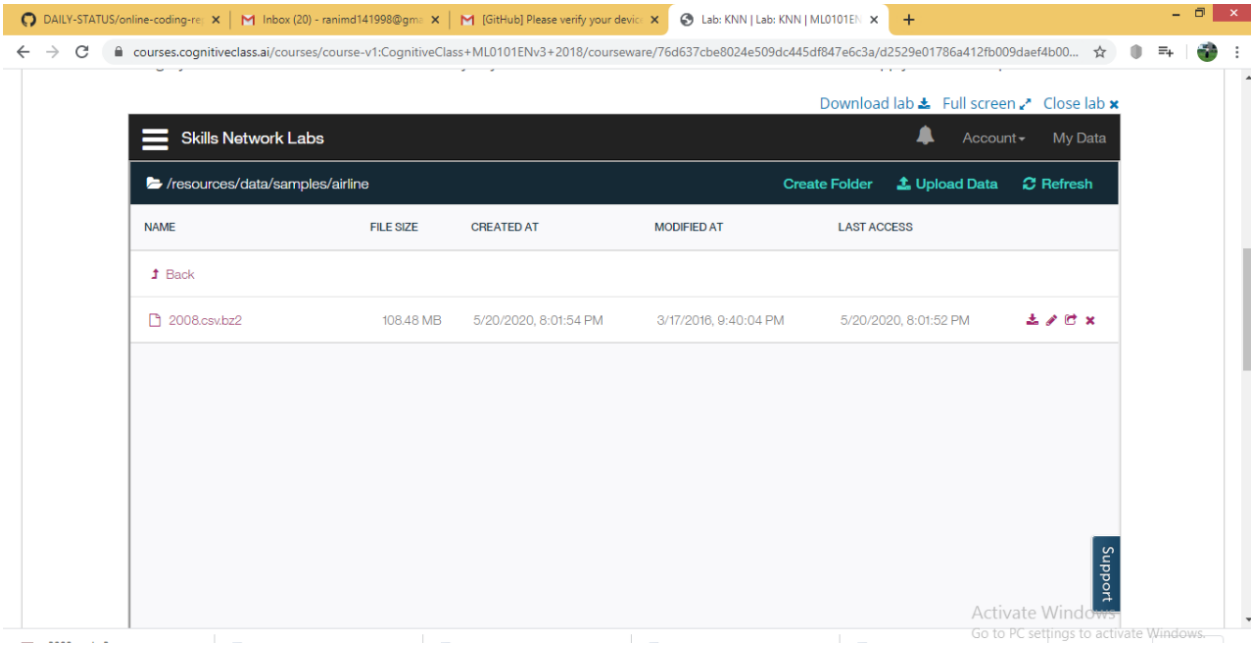
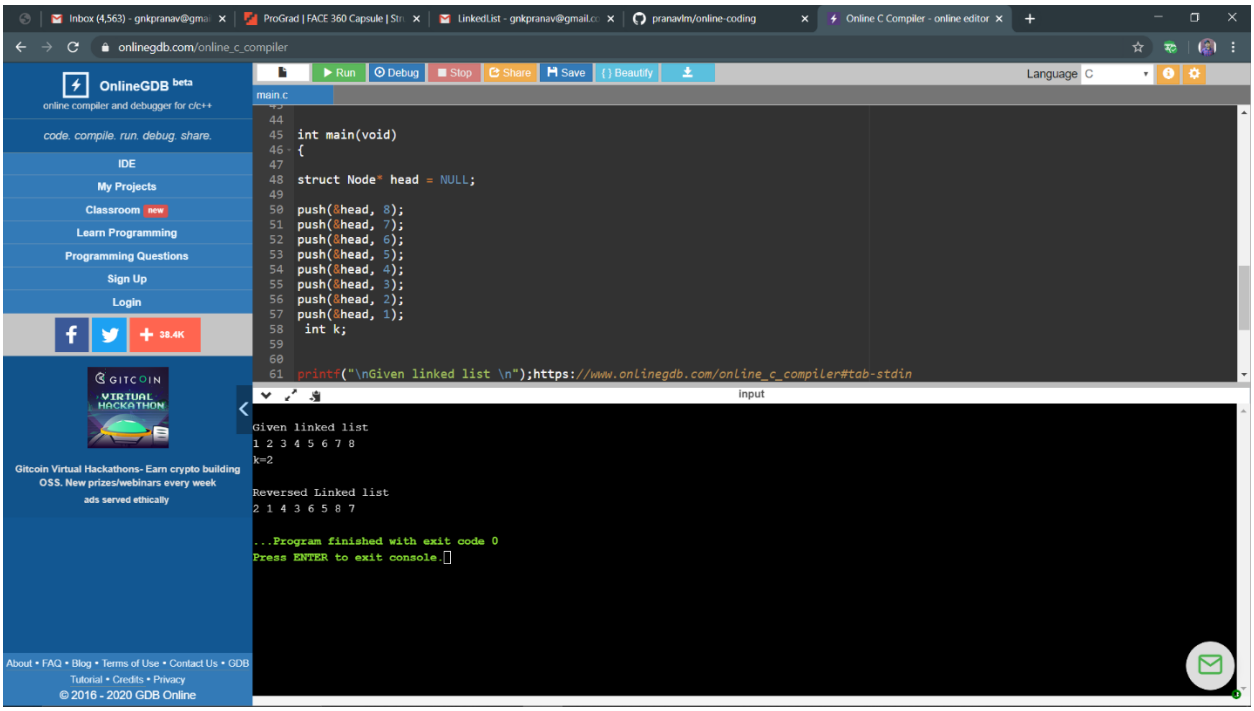
K-Nearest Neighbors (9:12)
courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENv3+2018/courseware/76d637cbe8024e509dc445df847e6c3a/3106345136b245148c64061...
Calculating the similarity/distance in a multi-dimensional space
Customer 1
Age Income Education
54 190 3
Customer 2
Age Income Education
50 200 8
$$\text{Dis}(x_1, x_2) = \sqrt{\sum_{i=0}^{n}(x_{1i} - x_{2i})^2}$$
$$= \sqrt{(54-50)^2+(190-200)^2+(3-8)^2} = 11.87$$
COGNITIVE CLASS
9
2 customers.
It is indeed, the Euclidian distance.
Distance of x1 from x2 is root of 34 minus 30 to power of 2, which is 4.
What about if we have more than one feature, for example Age and Income?
If we have income and age for each customer, we can still use the same formula, but this
time, we're using it in a 2-dimensional space.
We can also use the same distance matrix for multi-dimensional vectors.
Of course, we have to normalize our feature set to get the accurate dissimilarity measure.
There are other dissimilarity measures as well that can be used for this purpose but,
as mentioned, it is highly dependent on data type and also the domain that classification
is done for it.
As mentioned, K in k-nearest neighbors, is the number of nearest neighbors to
5:53 / 9:12
Speed 1.0x
HD





Toady I learnt about classification,Intro to classification,K-Nearest Neighbors,Evaluation Metrics and some lab programs

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)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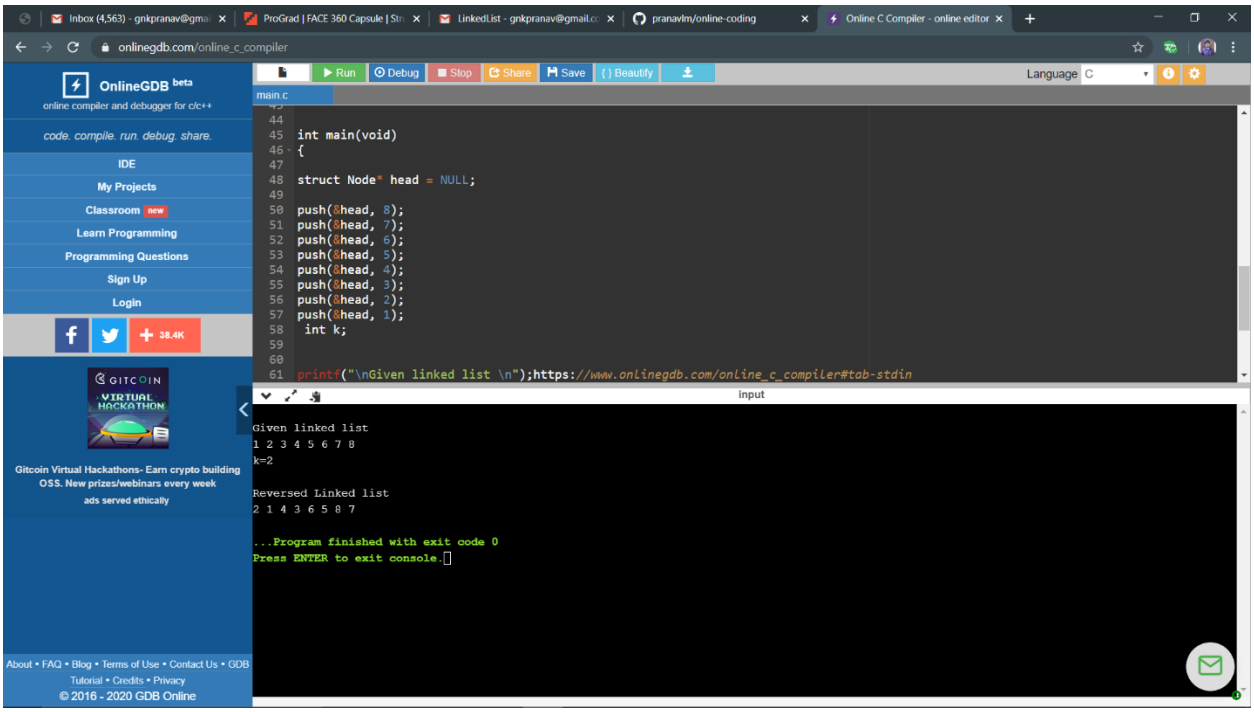
Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
int main(void)
{
struct Node* head = NULL;
push(&head, 8);
push(&head, 7);
push(&head, 6);
push(&head, 5);
push(&head, 4);
push(&head, 3);
push(&head, 2);
push(&head, 1);
int k;
printf("\nGiven linked list \n");https://www.onlinegdb.com/online_c_compiler#tab-stdin
input
Given linked list
1 2 3 4 5 6 7 8
k=2
Reversed Linked list
2 1 4 3 6 5 8 7
...Program finished with exit code 0
Press ENTER to exit console.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Run
Debug
Stop
Share
Save
{ } Beautify
Language C
main.c
int main(void)
{
struct Node* head = NULL;
push(&head, 8);
push(&head, 7);
push(&head, 6);
push(&head, 5);
push(&head, 4);
push(&head, 3);
push(&head, 2);
push(&head, 1);
int k;
printf("\nGiven linked list \n");https://www.onlinegdb.com/online_c_compiler#tab-stdin
input
Given linked list
1 2 3 4 5 6 7 8
k=2
Reversed Linked list
2 1 4 3 6 5 8 7
...Program finished with exit code 0
Press ENTER to exit console.

```
@)java -cp ..\mysql-connector-java-5.1.45-bin.jar;. ReadDatabaseStructureExample

=== TABLE: customers
        customer_id - INT(10)
        name - VARCHAR(45)
        Primary Key Column: customer_id

=== TABLE: mark
        date - DATE(10)
        subject - VARCHAR(45)
        score - INT(10)
        student_id - INT(10)
```


```python
n=int(input("Enter number: "))
rev=0
while(n>0):
    dig=n%10
    rev=rev*10+dig
    n=n//10
print("Reverse of the number:",rev)
```

```
Enter number: 1234
Reverse of the number: 4321
```