

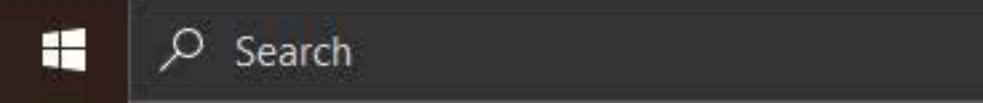
# MAIN PROGRAMS

Ln 3, Col 6

100%

Windows (CRLF)

UTF-8



U: 0.00 kB/s D: 0.00 kB/s 13:18  
27-05-2021 ENG 1

Course: SCSA2201 DATA STRUCTURE | LAB Ex 1a) - Insert an element in | LAB Ex 1b) - Delete an element | LAB Ex 2 - SIMPLY LINKED LIST | +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=508152&cmid=32692

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BANDEPALLI SURYA ANJANI KUMAR



**Question 1**

Correct

Mark 10.00 out  
of 10.00

Flag question

Write the python program to delete an element in an array by giving the element

NOTE:

Input: [1, 2, 3, 4, 5]

Output: [1, 2, 3, 5]

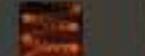
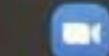
**Answer:** (penalty regime: 0 %)

```
1 case=[1,2,3,4,5]
2 for num in case:
3     if num==4:
4         case.remove(4)
5 print(case)
```

Finish review



Search



U:

0.00 kB/s

D:

0.00 kB/s

12:57 ENG

27-05-2021

Course: SCSA2201 DATA STRUCTURE | LAB Ex 1a) - Insert an element in | LAB Ex 1b) - Delete an element | LAB Ex 2 - SIMPLY LINKED LIST | +

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BANDEPALLI SURYA ANJANI KUMAR

	Input	Expected	Got	
✓	[1, 2, 3, 4, 5]	[1, 2, 3, 5]	[1, 2, 3, 5]	✓

Passed all tests! ✓

Submitted

Marks for this submission: 10.00/10.00.

Question 1  
Correct  
Mark 10.00 out of 10.00  
Flag question

Write the python program to delete an element in an array by giving the element

NOTE:

Input: [1, 2, 3, 4, 5]

Output: [1, 2, 3, 5]

Answer: (penalty regime: 0 %)

```
1 case=[1,2,3,4,5]
2 for num in case:
3     if num == 4:
4         case.remove(4)
5 print(case)
```

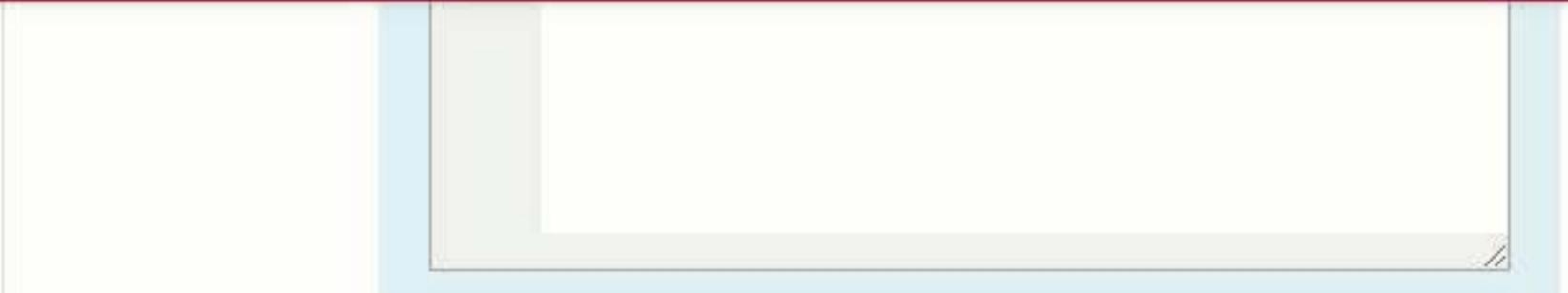
Finish review

Course: SCSA2201 DATA STRUCTURE | LAB Ex 1b) - Delete an element | LAB Ex 2 - SINGLELY LINKED LIST | +

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BANDEPALLI SURYA ANJANI KUMAR



	Input	Expected	Got	
✓	[1, 2, 3, 4, 5]	[1, 2, 3, 5]	[1, 2, 3, 5]	✓

Passed all tests! ✓

Normal

Marks for this submission: 10.00/10.00.

Finish review

Course: SCSA2201 DATA STRUCT X LAB Ex 2 - SINGLELY LINKED LIST (S X +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=468803&cmid=32065

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BANDEPALLI SURYA ANJANI KUMAR

Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to implement singly linked list

For example:

Result

1  
2  
3

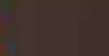
Finish review

Answer: (penalty regime: 0 %)

```
1 class Node:  
2     def __init__(self,data=None,next=None):  
3         self.data=data  
4         self.next=next  
5 class LinkedList:  
6     def __init__(self):  
7         self.head=None  
8     def insert(self,data):  
9         newNode=Node(data)  
10    if(self.head):  
11        current=self.head  
12        while(current.next):  
13            current=current.next  
14            current.next=newNode  
15        else:  
16            self.head=newNode  
17    def printLL(self):  
18        current=self.head
```



Search



U:

0.04 kB/s

D:

0.04 kB/s



12:58

ENG

27-05-2021

```
1 class Node:
2     def __init__(self,data=None,next=None):
3         self.data=data
4         self.next=next
5 class Linkedlist:
6     def __init__(self):
7         self.head=None
8     def insert(self,data):
9         newNode=Node(data)
10    if(self.head):
11        current=self.head
12        while(current.next):
13            current=current.next
14        current.next=newNode
15    else:
16        self.head=newNode
17    def printLL(self):
18        current=self.head
19        while(current):
20            print(current.data)
21            while(current.next):
22                current=current.next
23                current.next=newNode
24            else:
25                self.head=newNode
26    def printLL(self):
27        current=self.head
28        while(current):
29            print(current.data)
30            current=current.next
31 LL=Linkedlist()
32 LL.insert(1)
33 LL.insert(2)
34 LL.insert(3)
35 LL.printLL()
```

Course: SCSA2201 DATA STRUCTURE

LAB Ex 2 - SINGLELY LINKED LIST

sathyabama.cognibot.in/mod/quiz/review.php?attempt=468803&cmid=32065

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BANDEPALLI SURYA ANJANI KUMAR

35 | LL.printLL()

	Test	Expected	Got	
✓	test case1	1 2 3	1 2 3	✓

Passed all tests! ✓

Report Marks for this submission: 10.00/10.00.

Finish review



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Course: SCSA2201 DATA STRUCTURE LAB Ex 3 - DOUBLY LINKED LIST

sathyabama.cognibot.in/mod/quiz/review.php?attempt=469076&cmid=32089

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BANDEPALLI SURYA ANJANI KUMAR

**Question 1**

Correct

Mark 10.00 out of 10.00

Flag question

Write a Python program to implement stack using linked list

**For example:**

Test	Input	Result
test case 1	1	5
	2	4
	3	3
	4	2
	5	1

**Answer:** (penalty regime: 0 %)

```
1 lis=[1,2,3,4,5]
2 fwli=lis[0:]
3 bacli= lis[::-1]
4 print('Traversal in forward direction')
5 for num in fwli:
6     print('',num)
7 print('\nTraversal in reverse direction')
8 for nums in bacli:
9     print('',nums)
```

Finish review



1

BANDEPALLI SURYA ANJANI KUMAR



Course: SCSA2201 DATA STRUCT X LAB Ex 3 - DOUBLY LINKED LIST X +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=469076&cmid=32089

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BANDEPALLI SURYA ANJANI KUMAR

	Input	Expected	Got
1	1	Traversal in forward direction	Traversal in forw
	2		1
	3		2
	4		3
	5		4
		Traversal in reverse direction	Traversal in reve
			5
			4
			3
			2
			1

✓

Submit

Marks for this submission: 10.00/10.00.

Course: SCSA2201 DATA STRUCT X LAB Ex 4 - INSERTION SORT (Sec X) +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=468712&cmid=32066

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BANDEPALLI SURYA ANJANI KUMAR

**Question 1**

Correct

Mark 10.00 out of 10.00

Flag question

Write a Python program to implement Insertion Sort.

**For example:**

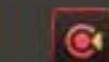
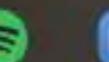
Test	Input	Result
test case 1	30 10 20 50 40	[10, 20, 30, 40, 50]

**Answer:** (penalty regime: 0 %)

```
1 def insertionSort(arr):
2     for i in range(1,len(arr)):
3         key=arr[i]
4         j=i-1
5         while j>=0 and key<arr[j]:
6             arr[j+1]=arr[j]
7             j-=1
8         arr[j+1]=key
9 arr=[int(x) for x in input().split()]
10 insertionSort(arr)
11 print(arr)
```



Search



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27-05-2021

Course: SCSA2201 DATA STRUCTURE   LAB Ex 4 - INSERTION SORT (Sec 1)

sathyabama.cognibot.in/mod/quiz/review.php?attempt=468712&cmid=32066

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BANDEPALLI SURYA ANJANI KUMAR

```
8     arr[j+1]=key
9 arr=[int(x) for x in input().split()]
10 insertionSort(arr)
11 print(arr)
```

	Input	Expected	Got
1	30 10 20 50 40	[10, 20, 30, 40, 50]	[10, 20, 30, 40, 50]



Marks for this submission: 10.00/10.00.

Course: SCSA2201 DATA STRUCTURE   LAB EX 5 - Quick Sort (Section: E)

sathyabama.cognibot.in/mod/quiz/review.php?attempt=507751&cmid=32710

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BANDEPALLI SURYA ANJANI KUMAR

Question 1  
Correct  
Mark 10.00 out of 10.00  
Flag question

Write a Python program to implement Quick Sort

For example:

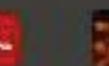
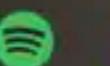
Input	Result
7 -2 4 1 6 5 0 -4 2	-4 -2 0 1 2 4 5 6 7

Answer: (penalty regime: 0 %)

```
1 def partition(arr,low,high):
2     i=(low-1)
3     pivot=arr[high]
4     for j in range(low,high):
5         if arr[j]<=pivot:
6             i=i+1
7             arr[i],arr[j]=arr[j],arr[i]
8     arr[i+1],arr[high]=arr[high],arr[i+1]
9     return(i+1)
10 def quickSort(arr,low,high):
11     if low<high:
12         pi=partition(arr,low,high)
13         quickSort(arr,low,pi-1)
14         quickSort(arr,pi+1,high)
15 arr=[7,-2,4,1,6,5,0,-4,2]
16 n=len(arr)
17 quickSort(arr,0,n-1)
18 for i in range(n):
19     print(arr[i],end=" ")
```



Search



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13:02

27-05-2021

Course: SCSA2201 DATA STRUCTURE   LAB EX 5 - Quick Sort (Section: E)

sathyabama.cognibot.in/mod/quiz/review.php?attempt=507751&cmid=32710

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BANDEPALLI SURYA ANJANI KUMAR

```
15 arr=[7,-2,4,1,6,5,0,-4,2]
16 n=len(arr)
17 quickSort(arr,0,n-1)
18 for i in range(n):
19     print(arr[i],end=" ")
```

Input	Expected	Got
7 -2 4 1 6 5 0 -4 2	-4 -2 0 1 2 4 5 6 7	-4 -2 0 1 2

Passed all tests! ✓

Overall  
Marks for this submission: 10.00/10.00.

Finish review

Course: SCSA2201 DATA STRUCTURE LAB EX 6 - Merge Sort (Section: E)

sathyabama.cognibot.in/mod/quiz/review.php?attempt=507925&cmid=32711

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BANDEPALLI SURYA ANJANI KUMAR

**Started on** Friday, 30 April 2021, 12:05 PM  
**State** Finished  
**Completed on** Friday, 30 April 2021, 12:16 PM  
**Time taken** 11 mins 11 secs  
**Grade** 10.00 out of 10.00 (100%)

**Question 1**

Correct

Mark 10.00 out of 10.00

[Flag question](#)

Write a Python program to implement Merge Sort

**For example:**

Test	Input	Result
test case 1	25 20 10 50 40 60	Given array is 25 20 10 50 40 60 Sorted array is: 10 20 25 40 50 60

**Answer:** (penalty regime: 0 %)

```
1 def mergeSort(arr):  
2     if len(arr)>1:  
3         m=len(arr)//2  
4         L=arr[:m]  
5         R=arr[m:]  
6         mergeSort(L)  
7         mergeSort(R)  
8         i=j=k=0  
9         while i<len(L) and j<len(R):  
10             if L[i]<R[j]:  
11                 arr[k]=L[i]  
12                 i+=1  
13             else:  
14                 arr[k]=R[j]  
15                 j+=1  
16             k+=1  
17         while i<len(L):  
18             arr[k]=L[i]  
19             i+=1  
20             k+=1  
21         while j<len(R):  
22             arr[k]=R[j]  
23             j+=1  
24             k+=1
```

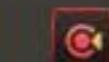
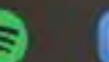
**Quiz navigation**

1

Finish review



Search



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13:03

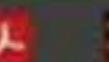
27-05-2021



## Data Structures All Programs.py •

C:\Users\DELL\Desktop\College 2nd Sem&gt; Data Structures All Programs.py &gt; ...

```
1 def mergeSort(arr):
2     if len(arr)>1:
3         m=len(arr)//2
4         L=arr[:m]
5         R=arr[m:]
6         mergeSort(L)
7         mergeSort(R)
8         i=j=k=0
9         while i<len(L) and j<len(R):
10             if L[i]<R[j]:
11                 arr[k]=L[i]
12                 i+=1
13             else:
14                 arr[k]=R[j]
15                 j+=1
16             k+=1
17         while i<len(L):
18             arr[k]=L[i]
19             i+=1
20             k+=1
21         while j<len(R):
22             arr[k]=R[j]
23             j+=1
24             k+=1
25 arr=[int(x) for x in input().split()]
26 print("Given array is")
27 for i in range(len(arr)):
28     print(arr[i],end=" ")
29 print("")
30 mergeSort(arr)
31 print("Sorted array is:")
32 for i in range(len(arr)):
33     print(arr[i],end=" ")
```





BANDEPALLI SURYA ANJANI KUMAR



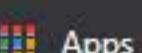
```
19      i+=1  
20      k+=1  
21  while j<len(R):  
22      arr[k]=R[i]
```

	Input	Expected	Got
1	25 20 10 50 40 60	Given array is 25 20 10 50 40 60 Sorted array is: 10 20 25 40 50 60	Given array is 25 20 10 50 40 60 Sorted array is: 10 20 25 40 50 60

[View code](#)

Marks for this submission: 10.00/10.00.

[Finish review](#)

**Question 1**

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to implement stack using arrays

**For example:**

Test	Result
test case 1	IMPLEMENTATION OF STACK USING ARRAYS 10 pushed to stack 20 pushed to stack 30 pushed to stack 30 popped from stack

Finish review

**Answer:** (penalty regime: 0 %)

```
1 from sys import maxsize
2 print("IMPLEMENTATION OF STACK USING ARRAYS")
3 def createStack():
4     stack=[]
5     return stack
6 def isEmpty(stack):
7     return len(stack)==0
8 def push(stack,item):
9     stack.append(item)
10    print(item+" pushed to stack")
11 def pop(stack):
12    if (isEmpty(stack)):
13        return str(-maxsize -1)
14    return stack[len(stack)-1]
15 stack = createStack()
```



Course: SCSA2201 DATA STRUCT X Lab Ex 7a - Stack using Arrays (S... X +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=518463&cmid=34953

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BANDEPALLI SURYA ANJANI KUMAR

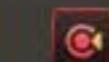
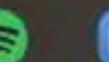
Answer: (penalty regime: 0 %)

```
1 from sys import maxsize
2 print("IMPLEMENTATION OF STACK USING ARRAYS")
3 def createStack():
4     stack=[]
5     return stack
6 def isEmpty(stack):
7     return len(stack)==0
8 def push(stack,item):
9     stack.append(item)
10    print(item+" pushed to stack")
11 def pop(stack):
12    if (isEmpty(stack)):
13        return str(-maxsize -1)
14    return stack[len(stack) -1]
15 stack = createStack()
16 push(stack, str(10))
17 push(stack, str(20))
18 push(stack, str(30))
19 print(pop(stack) + " popped from stack")
```

Test	Expected	Got



Search



U:

0.05 kB/s  
0.05 kB/s



13:05

27-05-2021

```
13     return str(-maxsize -1)
14     return stack[len(stack) -1]
15 stack = createStack()
16 push(stack, str(10))
17 push(stack, str(20))
18 push(stack, str(30))
19 print(pop(stack) + " popped from stack")
```

	Test	Expected	Got
✓	test case 1	IMPLEMENTATION OF STACK USING ARRAYS 10 pushed to stack 20 pushed to stack 30 pushed to stack 30 popped from stack	IM 10 20 30 30

Passed all tests! ✓

Marks for this submission: 10.00/10.00.

Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to implement stack using linked list

For example:

Test	Result
test case 1	IMPLEMENTATION OF STACK USING LINKED LIST 10 pushed to stack 20 pushed to stack 30 pushed to stack 30 popped from stack Top element is 20

Answer: (penalty regime: 0 %)

```
1 from sys import maxsize
2 print("IMPLEMENTATION OF STACK USING LINKED L
3 def createStack():
4     stack=[]
5     return stack
6 def isEmpty(stack):
7     return len(stack)==0
8 def push(stack,item):
9     stack.append(item)
10    print(' '+item+" pushed to stack")
11 def pop(stack):
12    if(isEmpty(stack)):
13        return str(-maxsize -1)
14    return stack[len(stack)-1]
```

Lab Ex 7b - Stack using Linked Li X +

sathyabama.cognibot.in/mod/quizz/review.php?attempt=587573&cmid=34956

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**RADHA KRISHNA RADHA KRISHNA**

20 pushed to stack  
30 pushed to stack  
30 popped from stack  
Top element is 20

**Answer:** (penalty regime: 0 %)

```
1 from sys import maxsize
2 print("IMPLEMENTATION OF STACK USING LINKED L
3 def createStack():
4     stack=[]
5     return stack
6 def isEmpty(stack):
7     return len(stack)==0
8 def push(stack,item):
9     stack.append(item)
10    print(' '+item+" pushed to stack")
11 def pop(stack):
12    if(isEmpty(stack)):
13        return str(-maxsize -1)
14    return stack[len(stack)-1]
15 stack=createStack()
16 push(stack, str(10))
17 push(stack, str(20))
18 push(stack, str(30))
19 print(' '+pop(stack)+" popped from stack")
20 print("Top element is 20")
```

Lab Ex 7b - Stack using Linked List

sathyabama.cognibot.in/mod/quiz/review.php?attempt=587573&cmid=34956

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RADHA KRISHNA RADHA KRISHNA

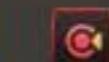
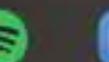
20 pushed to stack  
30 pushed to stack  
30 popped from stack  
Top element is 20

Answer: (penalty regime: 0 %)

```
1 sys import maxsize
2 ("IMPLEMENTATION OF STACK USING LINKED LIST")
3 def createStack():
4     stack=[]
5     return stack
6 def isEmpty(stack):
7     return len(stack)==0
8 def push(stack,item):
9     stack.append(item)
10    print(' '+item+" pushed to stack")
11 def pop(stack):
12    if isEmpty(stack):
13        return str(-maxsize -1)
14    return stack[len(stack)-1]
15 stack = createStack()
16 stack, str(10))
17 stack, str(20))
18 stack, str(30))
19 (' '+pop(stack)+" popped from stack")
20 ("Top element is 20")
```



Search



U:

0.00 kB/s

^



ENG

13:55

28-05-2021

1 3 RADHA KRISHNA RADHA KRISHNA

#	Expected	Got
1	IMPLEMENTATION OF STACK USING LINKED LIST 10 pushed to stack 20 pushed to stack 30 pushed to stack 30 popped from stack Top element is 20	IMPLEMENTATION OF STACK USING LINKED LIST 10 pu 20 pu 30 pu 30 po Top el

All tests! ✓

Marks for this submission: 10.00/10.00.

Finish review

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to implement Queue using Arrays.

For example:

Test	Result
test case 1	SIZE OF THE QUEUE = 4  Queue is Empty After Insertion of 10, 20, 30, 40 10 <-> 20 <-> 30 <-> 40 <-> Queue is full 10 <-> 20 <-> 30 <-> 40 <->  after two node deletion  30 <-> 40 <-> Front Element is: 30

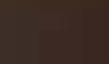
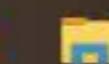
Finish review

Answer: (penalty regime: 0 %)

```
1 class Queue:  
2     def __init__(self,c):  
3         self.queue=[]  
4         self.front=self.rear=0  
5         self.capacity=c  
6     def queueEnqueue(self,data):  
7         if(self.capacity==self.rear):
```



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:07 ENG  
27-05-2021

## Data Structures All Programs.py •

C: &gt; Users &gt; DELL &gt; Desktop &gt; College 2nd Sem &gt; Data Structures All Programs.py &gt; ...

```
1  class Queue:
2      def __init__(self,c):
3          self.queue=[]
4          self.front=self.rear=0
5          self.capacity=c
6      def queueEnqueue(self,data):
7          if(self.capacity==self.rear):
8              print("\nQueue is full")
9          else:
10             self.queue.append(data)
11             self.rear+=1
12     def queueDequeue(self):
13         if(self.front==self.rear):
14             print("Queue is Empty")
15         else:
16             x=self.queue.pop(0)
17             self.rear-=1
18     def queueDisplay(self):
19         if(self.front==self.rear):
20             print("\nQueue is Empty")
21         for i in self.queue:
22             print(i,"--",end=' ')
23     def queueFront(self):
24         if(self.front==self.rear):
25             print("\nQueue is Empty")
26         print("\nFront Element is:",self.queue[self.front])
27 if __name__=='__main__':
28     q=Queue(4)
29     print("SIZE OF THE QUEUE = 4")
30     q.queueDisplay()
31     print("After Insertion of 10, 20, 30, 40")
32     q.queueEnqueue(10)
33     q.queueEnqueue(20)
34     q.queueEnqueue(30)
35     q.queueEnqueue(40)
36
37     q.queueDisplay()
38     q.queueEnqueue(50)
39     q.queueDisplay()
40     q.queueDequeue()
```

△ Select Python Interpreter

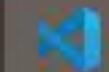
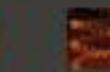
⊗ 0 △ 0

Ln 45, Col 5 Spaces: 4 UTF-8 CRLF Python

13:07



Search



U:

0.00 kB/s

^



) ENG

27-05-2021



## Data Structures All Programs.py •

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...
23     def queueFront(self):
24         if(self.front==self.rear):
25             print("\nQueue is Empty")
26             print("\nFront Element is:",self.queue[self.front])
27     if __name__=='__main__':
28         q=Queue(4)
29         print("SIZE OF THE QUEUE = 4")
30         q.queueDisplay()
31         print("After Insertion of 10, 20, 30, 40")
32         q.queueEnqueue(10)
33         q.queueEnqueue(20)
34         q.queueEnqueue(30)
35         q.queueEnqueue(40)
36
37         q.queueDisplay()
38         q.queueEnqueue(50)
39         q.queueDisplay()
40         q.queueDequeue()
41         q.queueDequeue()
42         print("\n\nAfter two node deletion\n")
43         q.queueDisplay()
44         q.queueFront()
45
```



Course: SCSA2201 DATA STRUCT X Lab Ex 8a - Queue using Arrays X +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=527527&cmid=35190

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BANDEPALLI SURYA ANJANI KUMAR

44 q.queueFront()

45

Test	Expected	Got
✓ test case 1	SIZE OF THE QUEUE = 4 Queue is Empty After Insertion of 10, 20, 30, 40 10 <-> 20 <-> 30 <-> 40 <-> Queue is full 10 <-> 20 <-> 30 <-> 40 <->  after two node deletion  30 <-> 40 <-> Front Element is: 30	SIZE Queue After 10 <-> Queue 10 <->  after  30 <-> Front

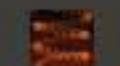
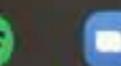
Passed all tests! ✓

submit

Marks for this submission: 10.00/10.00.



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:08 ENG

27-05-2021

Course: SCSA2201 DATA STRUCT X Lab Ex 8b - Queue using Linked List +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=527545&cmid=35191

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BANDEPALLI SURYA ANJANI KUMAR

Completed on Friday, 14 May 2021, 1:01 PM

Time taken 15 mins 43 secs

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to implement queue using linked list

For example:

Test	Result
test case 1	IMPLEMENTATION OF QUEUE USING LINKED LIST  Enqueue 10, 20  Dequeue Twice  Enqueue 30, 40, 50  Dequeue Once  Queue Front 40  Queue Rear 50

Answer: (penalty regime: 0 %)

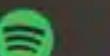
```
1 | class Node:  
2 |     def __init__(self,data):  
3 |         self.data =data
```

1  
✓

Finish review



Search



U:

6.42 kB/s  
0.56 kB/s

^

ENG

13:10  
27-05-2021

## Data Structures All Programs.py •

C:\Users&gt;DELL&gt;Desktop&gt;College 2nd Sem&gt; Data Structures All Programs.py &gt; ...

```
1  class Node:
2      def __init__(self,data):
3          self.data =data
4          self.next=None
5  class Queue:
6      def __init__(self):
7          self.front=self.rear=None
8      def isEmpty(self):
9          return self.front==None
10     def EnQueue(self,item):
11         temp=Node(item)
12         if self.rear==None:
13             self.front=self.rear=temp
14             return
15         self.rear.next=temp
16         self.rear=temp
17     def DeQueue(self):
18         if self.isEmpty():
19             return
20         temp=self.front
21         self.front=temp.next
22         if(self.front==None):
23             self.rear=None
24     if __name__=='__main__':
25         q=Queue()
26         print("IMPLEMENTATION OF QUEUE USING LINKED LIST")
27         print("\n Enqueue 10, 20")
28         q.Enqueue(10)
29         q.Enqueue(20)
30         print("\n Dequeue Twice")
31         q.DeQueue()
32         q.DeQueue()
33         print("\n Enqueue 30, 40, 50")
```

△ Select Python Interpreter ⚙ 0 △ 0

Ln 40, Col 46 Spaces: 4 UTF-8 CRLF Python ⚙ 🔍



Search



U:

0.06 kB/s

D:

0.07 kB/s

13:11

27-05-2021

## Data Structures All Programs.py •

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...
17     def DeQueue(self):
18         if self.isEmpty():
19             return
20         temp=self.front
21         self.front=temp.next
22         if(self.front==None):
23             self.rear=None
24     if __name__=='__main__':
25         q=Queue()
26         print("IMPLEMENTATION OF QUEUE USING LINKED LIST")
27         print("\n Enqueue 10, 20")
28         q.Enqueue(10)
29         q.Enqueue(20)
30         print("\n Dequeue Twice")
31         q.DeQueue()
32         q.DeQueue()
33         print("\n Enqueue30, 40, 50")
34         q.Enqueue(30)
35         q.Enqueue(40)
36         q.Enqueue(50)
37         print("\n Dequeue Once")
38         q.DeQueue()
39         print("\n Queue Front "+str(q.front.data))
40         print("\n Queue Rear "+ str(q.rear.data))
```



Course: SCSA2201 DATA STRUCT X Lab Ex 8b - Queue using Linked L... +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=527545&cmid=35191

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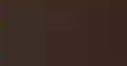
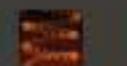
	Test	Expected
✓	test case 1	IMPLEMENTATION OF QUEUE USING LINKED LIS Enqueue 10, 20 Dequeue Twice Enqueue 30, 40, 50 Dequeue Once Queue Front 40 Queue Rear 50

Passed all tests! ✓

Marks for this submission: 10.00/10.00.



Search



U:

3.48 kB/s

D:

14.41 kB/s

^ 🔍 ⏪ ENG

13:11

27-05-2021



State Finished

Completed on Saturday, 22 May 2021, 4:36 PM

Time taken 30 mins 51 secs

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to implement Circular Queue using  
Arrays

For example:

t	Result
t case 1	Elements in the circular queue are: 14 22 13 -6 Deleted value = 14 Deleted value = 22 Elements in the circular queue are: 13 -6 Elements in Circular Queue are: 13 -6 9 20 5 Queue is Full

Answer: (penalty regime: 0 %)

```
1 class CircularQueue:  
2     def __init__(self,size):  
3         self.size=size  
4         self.queue=[None for i in range(size)]  
5         self.front=self.rear=-1  
6     def enqueue(self,data):  
7         if((self.rear+1)%self.size==self.front):  
8             print("Circular Queue is Full")  
9         else:  
10             self.queue[self.rear+1]=data  
11             self.rear+=1  
12             print("Enqueued element is",data)
```

1 ✓

Finish review

## Data Structures All Programs.py •

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...  
1 class CircularQueue:  
2     def __init__(self,size):  
3         self.size=size  
4         self.queue=[None for i in range(size)]  
5         self.front=self.rear=-1  
6     def enqueue(self,data):  
7         if((self.rear+1)%self.size==self.front):  
8             print("Queue is full\n")  
9         elif(self.front== -1):  
10            self.front=0  
11            self.rear=0  
12            self.queue[self.rear]=data  
13        else:  
14            self.rear=(self.rear+1)%self.size  
15            self.queue[self.rear]=data  
16    def dequeue(self):  
17        if(self.front== -1):  
18            print("Queue is Empty\n")  
19        elif(self.front==self.rear):  
20            temp=self.queue[self.front]  
21            self.front=-1  
22            self.rear=-1  
23            return temp  
24        else:  
25            temp=self.queue[self.front]  
26            self.front=(self.front+1)%self.size  
27            return temp  
28    def display(self):  
29        if(self.front== -1):  
30            print("Queue is Empty")  
31        elif(self.rear>=self.front):  
32            print("Elements in the circular queue are:",end=" ")  
33            for i in range(self.front,self.rear+1):
```

## Data Structures All Programs.py ●

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...
27     return temp
28
29     def display(self):
30         if(self.front== -1):
31             print("Queue is Empty")
32         elif(self.rear>=self.front):
33             print("Elements in the circular queue are:",end=" ")
34             for i in range(self.front,self.rear+1):
35                 print(self.queue[i],end=" ")
36             print()
37         else:
38             print("Elements in Circular Queue are:",end=" ")
39             for i in range(self.front,self.size):
40                 print(self.queue[i],end=" ")
41             for i in range(0,self.rear+1):
42                 print(self.queue[i],end=" ")
43             print()
44             if((self.rear+1)%self.size==self.front):
45                 print("Queue is Full")
46
47     ob=CircularQueue(5)
48     ob.enqueue(14)
49     ob.enqueue(22)
50     ob.enqueue(13)
51     ob.enqueue(-6)
52     ob.display()
53     print("Deleted value = ",ob.dequeue())
54     print("Deleted value = ",ob.dequeue())
55     ob.display()
56     ob.enqueue(9)
57     ob.enqueue(20)
58     ob.enqueue(5)
59     ob.display()
```

Course: SCSA2201 DATA STRUCT X Lab EX 9 - Circular Queue using / +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=570051&cmid=37226

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55 ob.enqueue(20)  
56 ob.enqueue(5)  
57 ob.display()

Expected	Got
e 1 Elements in the circular queue are: 14 22 13 -6 Deleted value = 14 Deleted value = 22 Elements in the circular queue are: 13 -6 Elements in Circular Queue are: 13 -6 9 20 5 Queue is Full	Eleme Delet Delet Eleme Eleme Queue

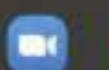
s! ✓

Marks for this submission: 10.00/10.00.

Finish review



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:13 ENG 27-05-2021

Course: SCSA2201 DATA STRUCT X Lab Ex 10 Infix to Postfix convers X +

sathyabama.cognibot.in/mod/quiz/review.php?attempt=570247&cmid=37230

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BANDEPALLI SURYA ANJANI KUMAR

**Question 1**

Correct

Mark 1.00 out of  
1.00

Flag question

Write a Python program to convert an infix expression into its equivalent postfix expression.

**For example:**

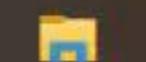
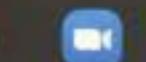
Input	Result
Infix Notation : A+(B*C-(D/E-F)*G)*H	Postfix Notation : ABC*DE/F-G*-H*+

**Answer:** (penalty regime: 0 %)

```
1 class conversion:  
2     def __init__(self, capacity):  
3         self.top= -1  
4         self.capacity = capacity  
5         self.array = []  
6         self.output = []  
7         self.precedence={'+":1,'-':1,'*':2,  
8     def isEmpty(self):  
9         return True if self.top == -1 else  
10    def peek(self):  
11        return self.array[-1]  
12    def pop(self):  
13        if not self.isEmpty():  
14            self.top-=1  
15            return self.array.pop()  
16        else:  
17            return "$"
```



Search



U:

0.06 kB/s  
0.07 kB/s

13:13

27-05-2021

## Data Structures All Programs.py •

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...  
1 class conversion:  
2     def __init__(self, capacity):  
3         self.top= -1  
4         self.capacity = capacity  
5         self.array = []  
6         self.output = []  
7         self.precedence={'+':1,'-':1,'*':2,'/':2,'^':3}  
8     def isEmpty(self):  
9         return True if self.top == -1 else False  
10    def peek(self):  
11        return self.array[-1]  
12    def pop(self):  
13        if not self.isEmpty():  
14            self.top-=1  
15            return self.array.pop()  
16        else:  
17            return "$"  
18    def push(self, op):  
19        self.top+=1  
20        self.array.append(op)  
21    def isOperand(self, ch):  
22        return ch.isalpha()  
23    def notGreater(self, i):  
24        try:  
25            a=self.precedence[i]  
26            b=self.precedence[self.peek()]  
27            return True if a<=b else False  
28        except KeyError:  
29            return False  
30    def infixToPostfix(self, exp):  
31        for i in exp:  
32            if self.isOperand(i):  
                self.output.append(i)
```

## Data Structures All Programs.py ●

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...
42
43
44
45
46
47
48
49
50
51
52
53
54
```

```
        a=self.precedence[i]
        b=self.precedence[self.peek()]
        return True if a<=b else False
    except KeyError:
        return False
def infixToPostfix(self, exp):
    for i in exp:
        if self.isOperand(i):
            self.output.append(i)
        elif i == '(':
            self.push(i)
        elif i == ')':
            while((not self.isEmpty()) and self.peek() != '('):
                a=self.pop()
                self.output.append(a)
            if(not self.isEmpty() and self.peek() != ')'):
                return -1
            else:
                self.pop()
        else:
            while(not self.isEmpty() and self.notGreater(i)):
                self.output.append(self.pop())
            self.push(i)
    print("Postfix Notation :")
    while not self.isEmpty():
        self.output.append(self.pop())
    print("".join(self.output))
exp = "A+(B*C-(D/E-F)*G)*H"
obj=conversion(len(exp))
obj.infixToPostfix(exp)
```



Course: SCSA2201 DATA STRUCT X Lab Ex 10 Infix to Postfix convers X +

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	Expected	Got
: A+(B*C-(D/E-F)*G)*H	Postfix Notation : ABC*DE/F-G*-H*+	Postfix Notation : ABC*DE/F-G*-H*+

Marks for this submission: 1.00/1.00.

Finish review



**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

Sathyabama Learning Management System ~ Developed

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BANDEPALLI SURYA ANJANI KUMAR

Completed on Saturday, 22 May 2021, 7.44 PM

Time taken 9 mins 39 secs

Grade 10.00 out of 10.00 (100%)

**Question 1**

Correct

Mark 10.00 out of 10.00

Flag question

Write a Python program to implement Priority Queue (where the highest value element will be popped out first)

For example:

Test	Result
test case 1	12 1 14 7 14 12 7 1

Answer: (penalty regime: 0 %)

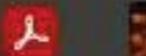
```
1 class PriorityQueue(object):  
2     def __init__(self):  
3         self.queue=[]  
4     def __str__(self):  
5         return ' '.join([str(i) for i in self.queue])  
6     def isEmpty(self):  
7         return len(self.queue)==0  
8     def enqueue(self,data):  
9         self.queue.append(data)  
10    def dequeue(self):  
11        try:12            return self.queue.pop(0)  
13        except IndexError:  
14            print("Queue is empty")  
15
```

1  
✓

Finish review



Search



U:

0.00 kB/s

D:

0.08 kB/s

13:14  
27-05-2021

## Data Structures All Programs.py •

```
C:\> Users > DELL > Desktop > College 2nd Sem > Data Structures All Programs.py > ...  
1  class PriorityQueue(object):  
2      def __init__(self):  
3          self.queue=[]  
4      def __str__(self):  
5          return ' '.join([str(i) for i in self.queue])  
6      def isEmpty(self):  
7          return len(self.queue)==0  
8      def Keep(self,data):  
9          self.queue.append(data)  
10     def delete(self):  
11         try:  
12             max=0  
13             for i in range(len(self.queue)):  
14                 if self.queue[i]>self.queue[max]:  
15                     max=i  
16                 item = self.queue[max]  
17                 del self.queue[max]  
18                 return item  
19             except IndexError:  
20                 print()  
21                 exit()  
22     if __name__=='__main__':  
23         myQueue=PriorityQueue()  
24         myQueue.Keep(12)  
25         myQueue.Keep(1)  
26         myQueue.Keep(14)  
27         myQueue.Keep(7)  
28         print(myQueue)  
29         while not myQueue.isEmpty():  
30             print([myQueue.delete()])
```



Course: SCSA2201 DATA STRUCTURE Lab EX 11 - Priority Queue (Section 1)

sathyabama.cognibot.in/mod/quiz/review.php?attempt=570711&cmid=37231

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```
30 | print(myQueue.delete())|
```

	Test	Expected	Got	
✓	test case 1	12 1 14 7 14 12 7 1	12 1 14 7 14 12 7 1	✓

Passed all tests! ✓

Final mark: Marks for this submission: 10.00/10.00.

Finish review



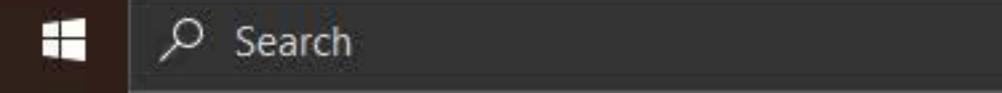
# VIRTUAL LMS

Ln 3, Col 8

100%

Windows (CRLF)

UTF-8



U: 0.07 kB/s  
D: 0.00 kB/s 13:19  
27-05-2021 ENG



Apps

Google

YouTube

Gmail

WhatsApp

Google Keep

Google Calendar

Google News

Sathyabama LMS

Typing Practise

Disney+ Hotstar

Reading list



BANDEPALLI SURYA ANJANI KUMAR

**Started on** Friday, 19 March 2021, 2:17 PM**State** Finished**Completed on** Friday, 19 March 2021, 2:18 PM**Time taken** 1 min 32 secs**Grade** 10.00 out of 10.00 (100%)**Question 1**

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a C program to find the search element in an array using Linear Search.

**Answer:** (penalty regime: 0 %)**RESET ANSWER**

```
1 #include <stdio.h>
2 int main()
3 {
4     int array[100], search, c, n;
5
6     scanf("%d", &n);
7
8     for (c = 0; c < n; c++)
9         scanf("%d", &array[c]);
10
11
12
13
14     scanf("%d", &search);
15
16     for (c = 0; c < n; c++)
```

**Quiz navigation**

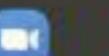
1



Finish review

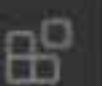


Search



## C Data Structures All Programs.py •

```
C:\> Users > DELL > Desktop > College 2nd Sem > C Data Structures All Programs.py
1 #include <stdio.h>
2 int main()
3 {
4     int array[100], search, c, n;
5
6
7     scanf("%d", &n);
8
9
10    for (c = 0; c < n; c++)
11        scanf("%d", &array[c]);
12
13
14    scanf("%d", &search);
15
16    for (c = 0; c < n; c++)
17    {
18        if (array[c] == search) /* If required element is found */
19        {
20            printf("%d \n", c+1);
21            break;
22        }
23    }
24    if (c == n)
25        printf("%d isn't present in the array.\n", search);
26
27    return 0;
28 }
```



Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 1 - Linear Search

sathyabama.cognibot.in/mod/quiz/review.php?attempt=385672&cmid=26693

Apps Google YouTube Gmail WhatsApp Google Keep Google Calendar Google News Sathyabama LMS Typing Practise Disney+ Hotstar Reading list

BANDEPALLI SURYA ANJANI KUMAR

```
26
27     return 0;
28 }
```

	Test	Input	Expected	Got	
✓	test case	5 10 20 30 40 50 20	2	2	✓

Passed all tests! ✓

Submit

Marks for this submission: 10.00/10.00.

Finish review



BANDEPALLI SURYA ANJANI KUMAR



State: Finished

Completed on: Friday, 19 March 2021, 2:34 PM

Time taken: 14 mins 1 sec

Grade: 10.00 out of 10.00 (100%)

## Question 1

Correct

Mark 10.00 out of 10.00

Flag question

Write a C program to find the average of n elements in an array

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int array[100],n=0,i=0,sum=0,avg=0;
5     scanf("%d",&n);
6     for(i=0;i<n;i++)
7         scanf("%d",&array[i]);
8     for(i=0;i<n;i++)
9     {
10         sum=sum+array[i];
11     }
12     avg=sum/n;
13     printf("%d\n",avg);
14 }
```

1  
✓

Finish review

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 2 - Average of Numbers

sathyabama.cognibot.in/mod/quiz/review.php?attempt=385704&cmid=26696

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BANDEPALLI SURYA ANJANI KUMAR

	Test	Input	Expected	Got	
✓	test case	5 5 10 15 20 25	15	15	✓

Passed all tests! ✓

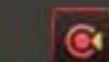
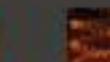
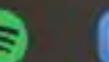


Marks for this submission: 10.00/10.00.

Finish review



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:21 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 3- Armstrong Number

sathyabama.cognibot.in/mod/quiz/review.php?attempt=410580&cmid=28537

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BANDEPALLI SURYA ANJANI KUMAR

Question 1

Correct

Mark 10.00 out of 10.00

Flag question

Write a python program to check whether given number is armstrong number or not

For example:

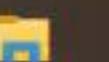
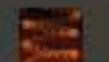
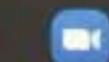
Test	Input	Result
test case 1	153	ARMSTRONG NUMBER
TEST CASE 2	123	NOT A ARMSTRONG NUMBER

Answer: (penalty regime: 0 %)

```
1 num = int(input())
2 temp = num
3 sum = 0
4 T1 = T2 = 0
5 while temp>0:
6     digit = temp % 10
7     sum += digit**3
8     temp = temp//10
9
10 if num == sum:
11     print("ARMSTRONG NUMBER")
12 else:
13     print("NOT A ARMSTRONG NUMBER")
```



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:22 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 3- Armstrong Number

sathyabama.cognibot.in/mod/quiz/review.php?attempt=410580&cmid=28537

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BANDEPALLI SURYA ANJANI KUMAR

```
10 if num == sum:  
11     print("ARMSTRONG NUMBER")  
12 else:  
13     print("NOT A ARMSTRONG NUMBER")
```

	Test	Input	Expected	Got
✓	test case 1	153	ARMSTRONG NUMBER	ARMSTRONG N
✓	TEST CASE 2	123	NOT A ARMSTRONG NUMBER	NOT A ARMST

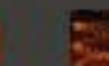
assed all tests! ✓

Mark

Marks for this submission: 10.00/10.00.



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:22 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 4 - Fibonacci Series

sathyabama.cognibot.in/mod/quiz/review.php?attempt=410750&cmid=28540

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BANDEPALLI SURYA ANJANI KUMAR

Time taken 8 mins 22 secs

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out of 10.00

Flag question

Write a python program to check whether a given number is prime number or not

For example:

Test	Input	Result
test case 1	3	3 is a prime number
test case 2	6	6 is not a prime number

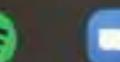
Answer: (penalty regime: 0 %)

```
1 num=int(input())
2 if num>1:
3     for i in range(2,num):
4         if(num%i)==0:
5             print(num,"is not a prime number")
6             break
7         else:
8             print(num,"is a prime number")
9     else:
10        print(num,"is not a prime number")
```

Finish review



Search



U:

0.00 kB/s

^



ENG

13:22  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 4 - Fibonacci Series

sathyabama.cognibot.in/mod/quiz/review.php?attempt=410750&cmid=28540

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BANDEPALLI SURYA ANJANI KUMAR

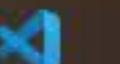
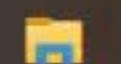
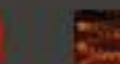
test case 1	3	3 is a prime number
test case 2	6	6 is not a prime number

Answer: (penalty regime: 0 %)

```
1 num=int(input())
2 if num>1:
3     for i in range(2,num):
4         if(num%i)==0:
5             print(num,"is not a prime number")
6             break
7         else:
8             print(num,"is a prime number")
9     else:
10        print(num,"is not a prime number")|
```



Search



U:

0.09 kB/s  
D: 0.09 kB/s

13:22 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 4 - Fibonacci Series

sathyabama.cognibot.in/mod/quiz/review.php?attempt=410750&cmid=28540

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BANDEPALLI SURYA ANJANI KUMAR

Test	Input	Expected	Got
test case 1	3	3 is a prime number	3 is a prime
test case 2	6	6 is not a prime number	6 is not a p

Passed all tests! ✓

Marked

Marks for this submission: 10.00/10.00.

Finish review



**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

Sathyabama Learning Management System ~ Developed

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BANDEPALLI SURYA ANJANI KUMAR



Grade 10.00 out of 10.00 (100%)

**Question 1**

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a python program to check whether a given number is prime number or not.

**For example:**

Test	Input	Result
test case 1	3	3 is a prime number
test case 2	6	6 is not a prime number

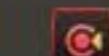
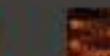
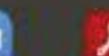
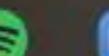
**Answer:** (penalty regime: 0 %)

```
1 num=int(input())
2 if num>1:
3     for i in range(2,num):
4         if(num%i)==0:
5             print(num,"is not a prime number")
6             break
7         else:
8             print(num,"is a prime number")
```

Finish review



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:23

27-05-2021



Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 5 - Check Prime

sathyabama.cognibot.in/mod/quiz/review.php?attempt=412315&cmid=28698

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BANDEPALLI SURYA ANJANI KUMAR

Test Input Expected Got

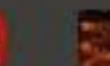
✓	test case 1	3	3 is a prime number	3 is a p
✓	test case 2	6	6 is not a prime number	6 is not

Passed all tests! ✓

Marks for this submission: 10.00/10.00.



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:23 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 6 - Factorial Program

sathyabama.cognibot.in/mod/quiz/review.php?attempt=420086&cmid=29328

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BANDEPALLI SURYA ANJANI KUMAR

Grade: 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out of 10.00

Flag question

Write a python program to find factorial of a given number

For example:

Test	Input	Result
TEST CASE 1	4	24
TEST CASE 2	5	120
test case 3	-5	Factorial does not exist for negative

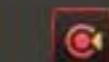
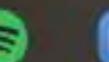
Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 def calc(n):
3     fact=1
4     if n== -5:
5         return "Factorial does not exist for negative"
6     for i in range(1,n+1):
7         fact*=i;
8     return fact
9 print(calc(n))
```

Finish review



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:24 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 6 - Factorial Program

sathyabama.cognibot.in/mod/quiz/review.php?attempt=420086&cmid=29328

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BANDEPALLI SURYA ANJANI KUMAR

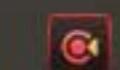
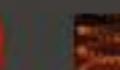
TEST CASE 2	120	
test case 3	-5	Factorial does not exist for negative

Answer: (penalty regime: 0 %)

```
1
2
3
4
5 Factorial does not exist for negative numbers"
6 ge(1,n+1):
7
8
9
```



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:24 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 6 - Factorial Program

sathyabama.cognibot.in/mod/quiz/review.php?attempt=420086&cmid=29328

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BANDEPALLI SURYA ANJANI KUMAR

	Input	Expected
1	4	24
2	5	120
3	-5	Factorial does not exist for negative numbers

✓

Submit

Marks for this submission: 10.00/10.00.

Finish review

Virtual LMS Ex 7 - Check for Palindrome  
Number (I year CSE E1 Time: 9.00 to 11.00 or  
2.00 to 4.00 or 6.00 to 8.00) 03.04.2021

# Palindrome

1534351



This quiz closed on Saturday, 3 April 2021, 10:00 PM

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Grading method: Highest grade

## Summary of your previous attempts

[C web.whatsapp.com](https://web.whatsapp.com)[Apps](#) [Google](#) [YouTube](#) [Gmail](#) [WhatsApp](#) [Google Keep](#) [Google Calendar](#) [Google News](#) [Sathyabama LMS](#) [Typing Practise](#) [Disney+ Hotstar](#) [Reading list](#)

Answer: (penalty regime: 0 %)

```
1 n=int(input(""))
2 temp=n
3 rev=0
4 while(n>0):
5     dig=n%10
6     rev=rev*10+dig
7     n=n//10
8 if(temp==rev):
9     print( "Palindrome Number")
10 else:
11     print("Not a Palindrome Number")
```



CHECK

Test	Input	Expected	Got	
✓ test case 1	545	Palindrome Number	Palindrome Number	✓
✓ test case 2	123	Not a Palindrome Number	Not a Palindrome Number	✓

Passed all tests! ✓

Type here to search



Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 8 - Check Vowel

sathyabama.cognibot.in/mod/quiz/review.php?attempt=450575&cmid=30016

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BANDEPALLI SURYA ANJANI KUMAR

State: Finished

Completed on: Friday, 9 April 2021, 6:31 PM

Time taken: 15 mins 18 secs

Grade: 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out of 10.00

Flag question

Write a Python program to check whether the given character is vowel or consonant.

For example:

Test	Input	Result
test case 1	a	a is a Vowel
test case 2	j	j is a Consonant

Answer: (penalty regime: 0 %)

```
1 l1=input()
2 if(l1=='a'or l1=='e'or l1=='i'or l1=='o'or l1=
3     print(f'{l1} is a Vowel')
4 else:
5     print(f'{l1} is a Consonant')
```

1  
✓

Finish review

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 8 - Check Vowel

sathyabama.cognibot.in/mod/quiz/review.php?attempt=450575&cmid=30016

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BANDEPALLI SURYA ANJANI KUMAR

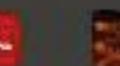
Answer: (penalty regime: 0 %)

```
1 l1=input()
2 if(l1=='a'or l1=='e'or l1=='i'or l1=='o'or l1==':
3     print(f'{l1} is a Vowel')
4 else:
5     print(f'{l1} is a Consonant')
```

Test	Input	Expected	Got
✓ test case 1	a	a is a Vowel	a is a Vowel
✓ test case 2	i	i is a Consonant	i is a Consonan



Search



U:

0.07 kB/s  
D: 0.00 kB/s

13:26 ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 8 - Check Vowel

sathyabama.cognibot.in/mod/quiz/review.php?attempt=450575&cmid=30016

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BANDEPALLI SURYA ANJANI KUMAR

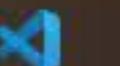
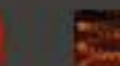
Answer: (penalty regime: 0 %)

```
1 print()
2 if 'a' or 'e' or 'i' or 'o' or 'u':
3     print(f'{11} is a Vowel')
4 else:
5     print(f'{11} is a Consonant')
```

Test	Input	Expected	Got
✓ test case 1	a	a is a Vowel	a is a Vowel
✓ test case 2	i	i is a Consonant	i is a Consonant



Search



U:

0.00 kB/s

^



13:26

ENG  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 8 - Check Vowel

sathyabama.cognibot.in/mod/quiz/review.php?attempt=450575&cmid=30016

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BANDEPALLI SURYA ANJANI KUMAR

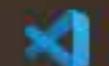
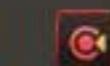
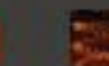
Test	Input	Expected	Got
✓ test case 1	a	a is a Vowel	a is a Vowel
✓ test case 2	j	j is a Consonant	j is a Consonan

Passed all tests! ✓

Marks for this submission: 10.00/10.00.



Search



U:

0.04 kB/s

D:

0.04 kB/s

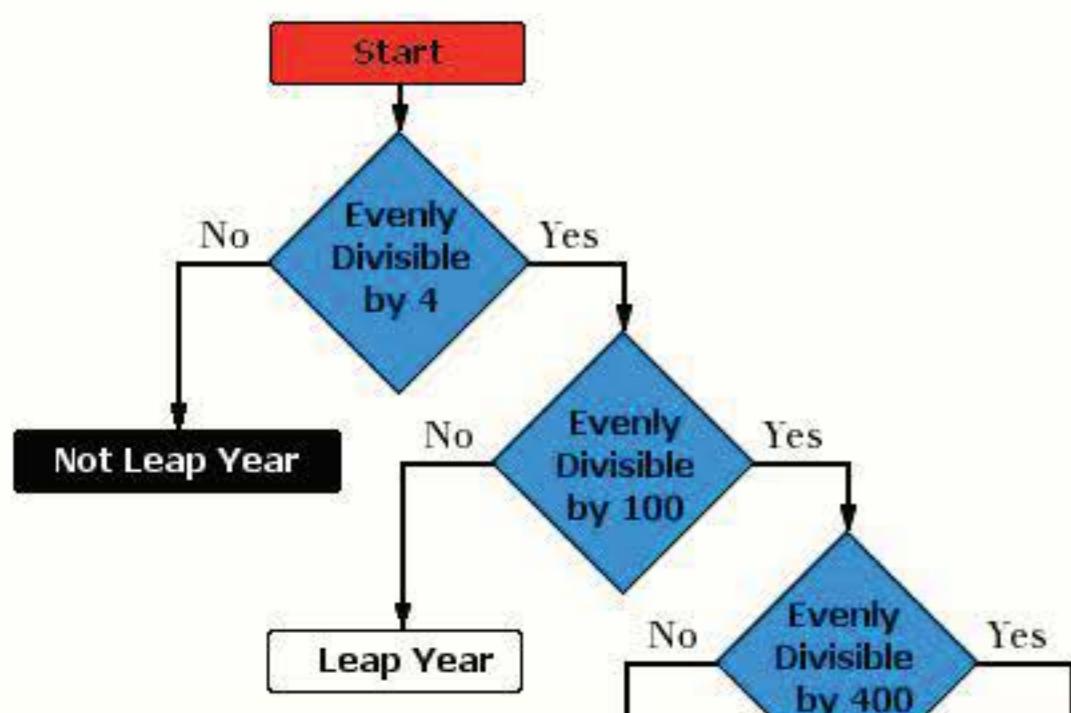
ENG

13:26  
27-05-2021

## Virtual LMS Ex 9 - Check Leap Year or Not (9.00A.M to 11.00 AM Section: E1) 10-04-2021

Following is pseudo-code

```
if year is divisible by 400 then is_leap_year  
else if year is divisible by 100 then not_leap_year  
else if year is divisible by 4 then is_leap_year  
else not_leap_year
```



```
C:\Data Structures All Programs.py •  
C:\> Users > DELL > Desktop > College 2nd Sem > C Data Structures All Programs.py  
1 year = int(input())  
2  
3 if ((year%400 == 0) or ((year%4 == 0) and (year%100 != 0))):  
4     print("Leap Year")  
5 else:  
6     print("Not a Leap Year")
```



BANDEPALLI SURYA ANJANI KUMAR



Grade 10.00 out of 10.00 (100%)

## Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python Program to Display Floyd's Triangle.

For example:

Test	Input	Result
TEST CASE 1	5	Floyd's Triangle 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Answer: (penalty regime: 0 %)

```
1 rows=int(input())
2 number = 1
3 print("Floyd's Triangle")
4 for i in range(1, rows + 1):
5     for j in range(1, i + 1):
6         print(number, end = ' ')
7         number = number + 1
8 print()
```

Finish review



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Test	Input	Expected	Got	
✓ TEST CASE 1	5	Floyd's Triangle 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Floyd's Triangle 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	✓
✓ TEST CASE 2	7	Floyd's Triangle 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Floyd's Triangle 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	✓

Passed all tests! ✓



Marks for this submission: 10.00/10.00.

Finish review



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**Question 1**

Correct

Mark 1.00 out of  
1.00

Flag question

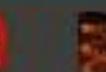
Write a python program to reverse number

**Answer:** (penalty regime: 0 %)

```
1 # Ask for enter the number from the user
2 number = int(input())
3
4 # Initiate value to null
5 revs_number = 0
6
7 # reverse the integer number using the while loop
8
9 while (number > 0):
10     # Logic
11     remainder = number % 10
12     revs_number = (revs_number * 10) + remainder
13     number = number // 10
14
15 # Display the result
16 print("{}".format(revs_number))
```

Input Expected Got

Search



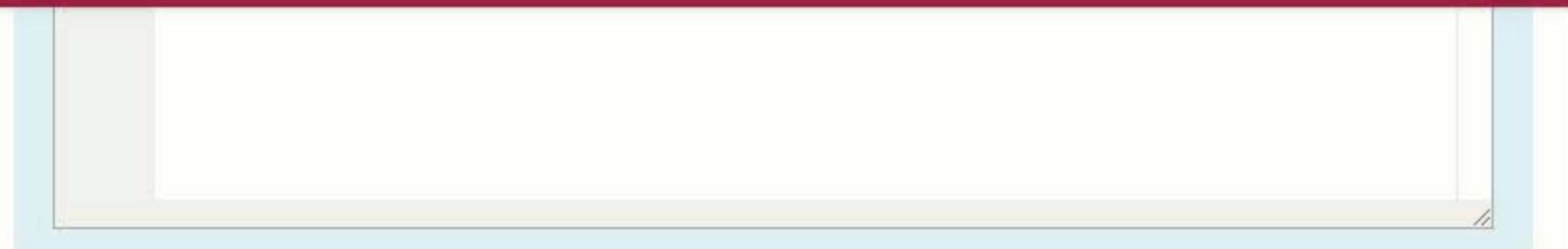
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D: 0.05 kB/s

13:29  
27-05-2021



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	Input	Expected	Got	
✓	1234	4321	4321	✓

Passed all tests! ✓



Marks for this submission: 1.00/1.00.

Finish review

◀ 11.04.2021- SECTION E1 Virtual  
LMS Ex 10 - Display Floyd's  
Triangle ( 8.00P.M - 10.00 PM)

Jump to...

Virtual LMS Ex 12 - Sum of  
Natural Numbers using python (I  
year CSE E1 Time: 9.00 to 11.00 or  
2.00 to 4.00 or 6.00 to 8.00)

**Answer:** (penalty regime: 0 %)

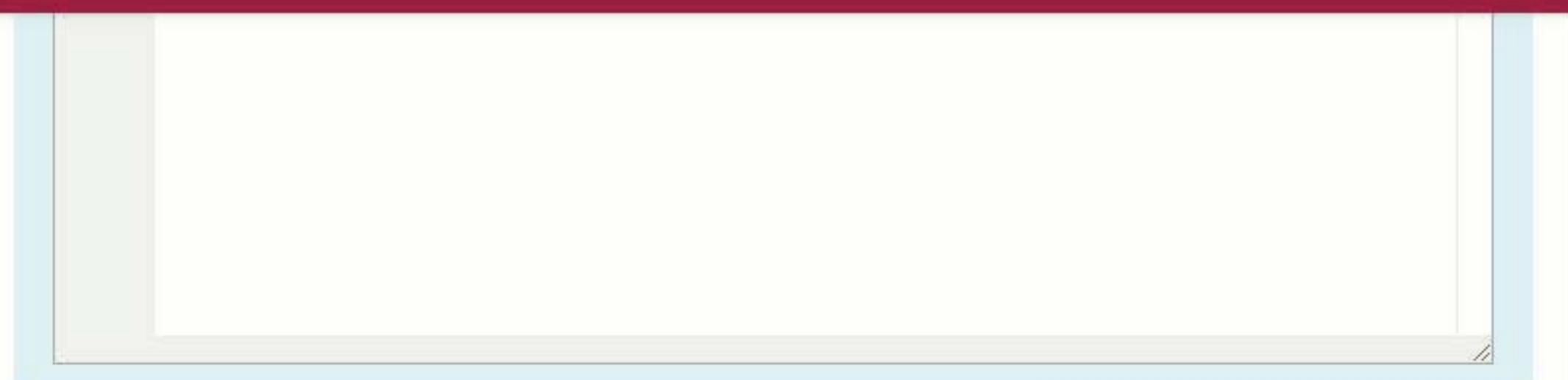
```
1 #include<stdio.h>
2 int main()
3 {
4     int n,i,sum=0;
5     scanf("%d",&n);
6     for(i=1;i<=n;++i)
7     {
8         sum+=i;
9     }
10    printf("%d",sum);
11    return 0;
12 }
```

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 12 - Sum of Natural Numbers

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	Test	Input	Expected	Got	
✓	Test Case 1	16	136	136	✓

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Finish review

◀ Virtual LMS Ex 11 - Reverse a

Virtual LMS Ex 13 - HCF of 2

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 13 - HCF of 2 numbers

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Question 1

Correct

Mark 1.00 out of  
1.00

Flag question

Find the Highest Common Factor of two numbers

For example:

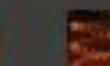
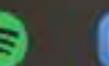
Test	Input	Result
T1	20	The H.C.F. is 10
	30	

Answer: (penalty regime: 0 %)

```
1 def hcf(x,y):  
2     if x>y:  
3         smaller=y  
4     else:  
5         smaller=x  
6     for i in range(1,smaller,+1):  
7         if((x%i == 0) and (y%i == 0)):  
8             hcf=i  
9     return hcf  
10 print("The H.C.F. is 10")
```



Search



U:

0.00 kB/s  
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27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 13 - HCF of 2 numbers

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BANDEPALLI SURYA ANJANI KUMAR

```
9     return hcf
10    print("The H.C.F. is 10")
```

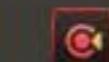
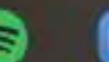
	Test	Input	Expected	Got	
✓	T1	20 30	The H.C.F. is 10	The H.C.F. is 10	✓

Passed all tests! ✓

Marks for this submission: 1.00/1.00.



Search



U:

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13:30

27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 14 - Python program

sathyabama.cognibot.in/mod/quiz/review.php?attempt=511773&cmid=32685

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BANDEPALLI SURYA ANJANI KUMAR

Completed on Saturday, 1 May 2021, 10:45 AM

Time taken 1 min 52 secs

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 10.00 out of 10.00

Flag question

Python program to print the elements of an array present on even position

NOTE:

Give input as [1,2,3,4,5,6]

Answer: (penalty regime: 0 %)

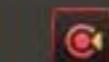
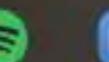
```
1 arr=[1,2,3,4,5,6];
2 for i in range(1,len(arr),2):
3     print(arr[i]);
```

1  
✓

Finish review



Search



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3.07 kB/s  
5.12 kB/s

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13:30  
27-05-2021

Course: SCSA2201 DATA STRUCTURE Virtual LMS Ex 14 - Python program

sathyabama.cognibot.in/mod/quiz/review.php?attempt=511773&cmid=32685

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	Input	Expected	Got	
✓	1	2	2	✓
	2	4	4	
	3	6	6	
	4			
	5			
	6			

Passed all tests! ✓

100.00

Marks for this submission: 10.00/10.00.



BANDEPALLI SURYA ANJANI KUMAR

**Question 1**

Correct

Mark 1.00 out of  
1.00

Flag question

Write a python program to find the sum of the cubes of the first  
'n' natural numbers

**For example:**

Test	Input	Result
Test Case1	5	225

**Answer:** (penalty regime: 0 %)

```
1 def sumofseries(n):  
2     x=(n*(n+1)/2)  
3     return(int)(x*x)  
4 n=5  
5 print(sumofseries(n))
```



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	Test	Input	Expected	Got	
✓	Test Case1	5	225	225	✓

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Course: SCSA2201 DATA STRUCTURE X DATA STRUCTURES AND ALGORI WhatsApp X | +

← → C sathyabama.cognibot.in/mod/quiz/view.php?id=35166 ☆

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Accredited with Grade "A" by NAAC | 12B Status by UGC | Approved by AICTE

BANDEPALLI SURYA ANJANI KUMAR

## Ex 16 - Matrix Addition (Section E1 14.05.2021 9 am to 11 am)

Write a Program to perform matrix addition

This quiz closed on Friday, 14 May 2021, 11:00 AM

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Grading method: Highest grade

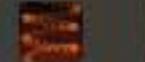
### Summary of your previous attempts

Attempt	State	Review
1	Finished	Not permitted

Submitted Friday, 14 May 2021, 10:17 AM

BACK TO THE COURSE

Search



U: 0.05 kB/s  
D: 0.41 kB/s  
12:54  
28-05-2021

```
1 X = [[1,2,3],  
2     [4,5,6],  
3     [7,8,9]]  
4 Y = [[10,11,12],  
5     [13,14,15],  
6     [16,17,18]]  
7 result=[[0,0,0],  
8         [0,0,0],  
9         [0,0,0]]  
10 for i in range(len(X)):  
11     for j in range(len(X[0])):  
12         result[i][j]=X[i][j]+Y[i][j]  
13 for r in result:  
14     print(r)  
15
```

Course: SCSA2201 DATA STRUCTURE | DATA STRUCTURES AND ALGORI | WhatsApp

← → C 🔒 web.whatsapp.com

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The screenshot shows a WhatsApp web interface. At the top, there's a code editor window with the following content:

```
14 print(r)
15
```

Below the code editor is a test results table:

	Test	Expected	Got	
✓	test case 1	[11, 13, 15] [17, 19, 21] [23, 25, 27]	[11, 13, 15] [17, 19, 21] [23, 25, 27]	✓

Course: SCSA2201 DATA STRUCT X Ex 17 - Print all happy numbers X +

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BANDEPALLI SURYA ANJANI KUMAR

Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to print all Happy Numbers between 1 and 100.

For example:

Test	Result
test case 1	1 7 10 13 19 23 28 31 32 44 49 68

Answer: (penalty regime: 0 %)

```
1 def squaresum(n):  
2     s=0  
3     while n!=0:  
4         r=n%10  
5         n=n//10  
6         s+=r**2  
7     return s  
8 for i in range(1,101):  
9     s=i  
10    while s!=1 and s!=4:  
11        s=squaresum(s)  
12    if s==1:  
13        print(i,end=" ")
```



BANDEPALLI SURYA ANJANI KUMAR

1

```
11         s=squaresum(s)
12     if s==1:
13         print(i,end=" ")
```

Expected	1	1	7	10	13	19	23	28	31	32	44	49	68	70	79	82
----------	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----

◀

Marks for this submission: 10.00/10.00.

[Finish review](#)

Course: SCSA2201 DATA STRUCT X Ex 17 - Print all happy numbers X +

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≡ 🔔 2 BANDEPALLI SURYA ANJANI KUMAR

```
11     s=squaresum(s)
12 if s==1:
13     print(i,end=" ")
```

Go

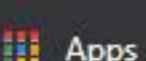
8	31	32	44	49	68	70	79	82	86	91	94	97	100	1
---	----	----	----	----	----	----	----	----	----	----	----	----	-----	---

◀ ▶

100%

Marks for this submission: 10.00/10.00.

Finish review



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Sathyabama LMS

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**Question 1**

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to determine whether the given number is a Harshad Number or not

**For example:**

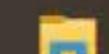
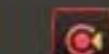
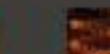
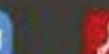
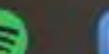
Test	Input	Result
test case 1	18	18 is a harshad number

**Answer:** (penalty regime: 0 %)

```
1 num=int(input(""));
2 rem=sum=0;
3 n=num;
4 while(num>0):
5     rem=num%10;
6     sum=sum+rem;
7     num=num//10;
8 if(n%sum==0):
9     print(str(n)+" is a harshad number");
10 else:
11     print(str(n)+" is not a harshad number");
```



Search



U:

0.00 kB/s

D:

0.00 kB/s

13:33

27-05-2021



Course: SCSA2201 DATA STRUCTURE Ex 18 - Determine whether given +

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Test Input Expected Got

	Test	Input	Expected	Got
✓	test case 1	18	18 is a harshad number	18 is a h

Passed all tests! ✓

ANSWER

Marks for this submission: 10.00/10.00.

Finish review



## Question 1

Correct

Mark 10.00 out  
of 10.00

Flag question

Write a Python program to remove punctuations from a string.

Punctuations like !@#\$%^&\*([{}])-;"\<.,,>/?~.\_

E.g. Welcome! "Python"

OUTPUT = Welcome Python

**For example:**

Test	Input	Result
test case 1	Welcome! "Python"	Welcome Python

**Answer:** (penalty regime: 0 %)

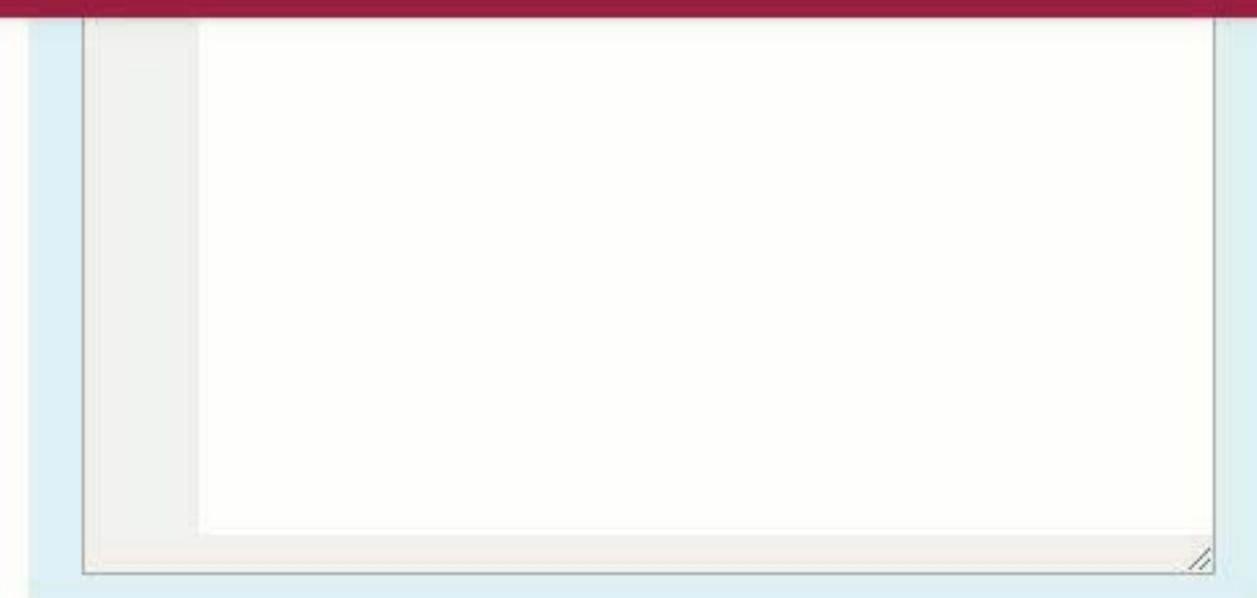
```
1 punc='''!@#$%^&*([{}])-;"\<.,,>/?~._'''  
2 string=input()  
3 for char in string:  
4     if char in punc:  
5         string=string.replace(char,"")  
6 print(string)
```

Course: SCSA2201 DATA STRUCT X Ex 19 - Remove Punctuations fro X +

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Test	Input	Expected	Got
test case 1	Welcome! "Python"	Welcome Python	Welcome Pytl

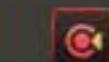
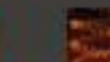
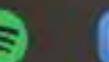
Passed all tests! ✓

Marks for this submission: 10.00/10.00.

Finish review



Search



U:

0.00 kB/s

D:

0.00 kB/s

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27-05-2021