

DAILY ONLINE ACTIVITIES SUMMARY

Date:	20-05-2020	Name:	Anvitha Poojary
Sem & Sec	6A	USN:	4AL17CS008
Online Test Summary			
Subject	SSCD		
Max. Marks	30	Score	24
Certification Course Summary			
Course	Front end development-HTML		
Certificate Provider	greatlearning	Duration	3:30hr
Coding Challenges			
Problem Statement: Write Python Program to Reverse a Given Number			
Status: completed			
Uploaded the report in Github		yes	
If yes Repository name		REPORT3	
Uploaded the report in slack		yes	

Online test details:

The screenshot shows a web browser window with the URL `techgig.com/challenge/SSCDIAtest1?utm_source=Mailer&utm_medium=TG_batch&utm_campaign=Act_contestskilltestresult_2020-05-20&email=anv...`. The page features a dark banner at the top with the text "Challenge Over by TechGig" and "SYSTEM SOFTWARE AND COMPILER DESIGN - IA TEST 1". Below the banner, there is a "MCQ" section with the text "Your Highest Score 24 Max Score 30" and a "Start Test" button. To the right, a "Summary" box displays "Skills SS, Problem Solving Skills" and "Ends On 20 May". Below these, there are tabs for "Details", "Winners", "FAQs", and "My Submission". The "Details" tab is active, showing "Rules" which include: "1. Any participant can attempt the assessment only 1 times, Only your best score counts!!", "2. There will be no negative marking.", and "3. Time duration is 40 minutes." The Windows taskbar at the bottom shows the time as 05:07 PM on 20-05-2020.

Certification course details:

The image displays two screenshots of a web browser showing the Great Learning course page for 'Front end Development - HTML'. The browser's address bar shows the URL 'olympus.greatlearning.in/courses/12761'. The page header includes the Great Learning logo, navigation links for 'Home' and 'Live Sessions', and a 'My Courses' button. The main content area lists coding challenges with their titles, durations, and scores. A blue circular button with an upward arrow is visible on the right side of the challenge list in both screenshots.

Challenge List (Top Screenshot):

Challenge Title	Duration	Score
33. Inline Elements	4m	✓
Inline Elements		Your Score: 1/1
34. Inline VS Blocks	2m	✓
Inline Vs Blocks		Your Score: 0/1
35. ID	3m	✓
ID		Your Score: 1/1
36. Classes	6m	✓
Classes		Your Score: 1/1
37. Relationship between Elements	5m	✓

Challenge List (Bottom Screenshot):

Challenge Title	Duration	Score
Button Types		Your Score: 0.33/1
30. Div Tag	5m	✓
Div tag		Evaluation Pending
31. Span Tag	5m	✓
Span tag		Evaluation Pending
32. Block level Elements	6m	✓
Block level elements		Your Score: 1.40/2
33. Inline Elements	4m	✓
Inline Elements		Your Score: 1/1

Coding challenges details:

1. Write a C Program to Reverse a Linked List in groups of given size.

Test Case 1:

If a linked list is: $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8$

The value of size k is 2

Then the linked list looks like: $2 \rightarrow 1 \rightarrow 4 \rightarrow 3 \rightarrow 6 \rightarrow 5 \rightarrow 8 \rightarrow 7$

Test Case 2:

If a linked list is: $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8$

The value of size k is 3

Then the linked list looks like: $3 \rightarrow 2 \rightarrow 1 \rightarrow 6 \rightarrow 5 \rightarrow 4 \rightarrow 8 \rightarrow 7$

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include<stdlib.h>
```

```
typedef struct node
```

```
{
```

```
    int data;
```

```
    struct node *next;
```

```
}node;
```

```
void reverse(node *head)
```

```
{
```

```
    if(head == NULL)
```

```
        return;
```

```
    if(head->next == NULL)
```

```
        return;
```

```
    reverse(head->next);
```

```
    head->next->next = head;
```

```
    head->next = NULL;
```

```
}
```

```

node *swap_in_a_group(node *start , int k)
{
    node *p , *q , *new_start , *temp;
    int cnt;
    p = start;
    cnt = 0;
    while(cnt != k-1)
    {
        if(p->next == NULL)
        {
            return start;
        }
        p = p->next;
        cnt++;
    }
    new_start = p;
    q = new_start;
    while(1)
    {
        p = start;
        temp = q->next;
        if(temp == NULL)

```

```

{
    reverse(p);
    return new_start;
}

q->next = NULL;

q = temp;

start = temp;

cnt = 0;

while(cnt != k-1)
{
    if(temp->next == NULL)
    {
        reverse(p);
        p->next = q;
        return new_start;
    }

    temp = temp->next;
    cnt++;
}

reverse(p);

p->next = temp;

q = temp;
}

```

```

return new_start;

}

int main()

{

    int a , i , n , cnt , k=4 , flag = 1;

    node *p,*q,*start;

    printf("Enter the number of nodes");

    scanf("%d",&n);

    printf("Enter all the nodes  \n");

    p = (node*)malloc(sizeof(node));

    scanf("%d",&a);

    p->data = a;

    p->next = NULL;

    start = p;

    for(i=1;i<n;i++)

    {

        q = (node*)malloc(sizeof(node));

        scanf("%d",&a);

        q->data = a;

        q->next = NULL;

        p->next = q;

        p = p->next;

```

```

    }

    printf("\n Enter K ");

    scanf("%d",&k);

    printf("\n swapped list==");

    p = swap_in_a_group(start , k);

    while(p!=NULL)
    {

        printf("%d ",p->data);

        p = p->next;

    }

return 0;

}

```

Output:

The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The browser's address bar and tabs are visible at the top. Below the browser window is a toolbar with buttons for Run, Debug, Stop, Share, Save, and Beautify. The main area is divided into two panes. The left pane, titled 'main.c', contains the C source code for a linked list program. The right pane, titled 'input', shows the program's execution output. The output includes prompts for the number of nodes and node data, followed by the input values. It then prompts for a value K, which is 2. The output shows the swapped list: 3 1 5 4 7 8 6 9. The program finishes with exit code 0, and the user is prompted to press ENTER to exit the console. The Windows taskbar is visible at the bottom of the screen.

```

main.c
1 #include<stdio.h>
2 #include<conio.h>
3 #include<stdlib.h>
4 typedef struct node
5 {
6     int data;
7     struct node *next;
8 }
9
10 int main()
11 {
12     int n;
13     struct node *start = NULL;
14     struct node *p = NULL;
15     struct node *q = NULL;
16
17     printf("Enter the number of nodes\n");
18     scanf("%d",&n);
19
20     printf("Enter all the nodes\n");
21     for(int i=0; i<n; i++)
22     {
23         p = (struct node *)malloc(sizeof(struct node));
24         p->data = i+1;
25         p->next = NULL;
26         if(start == NULL)
27             start = p;
28         else
29             q->next = p;
30         q = p;
31     }
32
33     printf("Enter K ");
34     scanf("%d",&k);
35
36     printf("\n swapped list==");
37
38     p = swap_in_a_group(start , k);
39
40     while(p!=NULL)
41     {
42         printf("%d ",p->data);
43         p = p->next;
44     }
45
46     return 0;
47 }

```

input

```

Enter the number of nodes8
Enter all the nodes
1 3 4 5 6 7 8 9 6

Enter K 2

swapped list==3 1 5 4 7 8 6 9

...Program finished with exit code 0
Press ENTER to exit console.

```


#Write Python Program to Reverse a Given Number

```
Number = int(input("Please Enter any Number: "))

Reverse = 0

while(Number > 0):

    Reminder = Number %10

    Reverse = (Reverse *10) + Reminder

    Number = Number //10

print("\n Reverse of entered number is = %d" %Reverse)
```

output:



```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (default, Aug 9 2019, 18:34:13) [MSC v.1915 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\hp\Desktop\reverse.py =====
Please Enter any Number: 807897
Reverse of entered number is = 798708
>>>
```

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

```
x=int(input("Enter value of x: "))
y=int(input("Enter value of y: "))

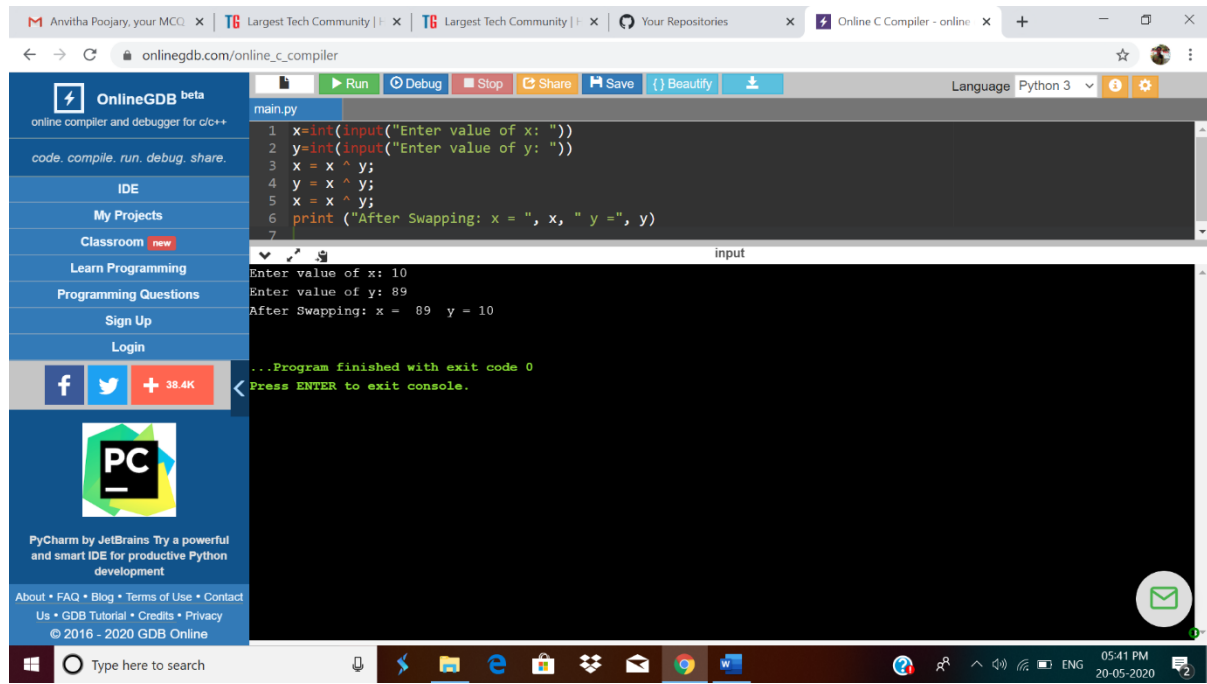
x = x ^ y;
```

```
y = x ^ y;
```

```
x = x ^ y;
```

```
print ("After Swapping: x = ", x, " y =", y)
```

Output:



The screenshot displays the OnlineGDB web IDE interface. The top navigation bar includes links for 'Run', 'Debug', 'Stop', 'Share', 'Save', and 'Beautify'. The left sidebar contains a menu with options like 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main editor area shows a Python script in a file named 'main.py'. The script prompts the user to enter values for 'x' and 'y', performs a swap using XOR, and prints the result. The output window shows the execution results: 'Enter value of x: 10', 'Enter value of y: 89', 'After Swapping: x = 89 y = 10', and '...Program finished with exit code 0'. The bottom status bar indicates the time as 05:41 PM on 20-05-2020.

```
main.py
1 x=int(input("Enter value of x: "))
2 y=int(input("Enter value of y: "))
3 x = x ^ y;
4 y = x ^ y;
5 x = x ^ y;
6 print ("After Swapping: x = ", x, " y =", y)
7
```

input

```
Enter value of x: 10
Enter value of y: 89
After Swapping: x = 89 y = 10

...Program finished with exit code 0
Press ENTER to exit console.
```