# DAILY ONLINE ACTIVITIES SUMMARY

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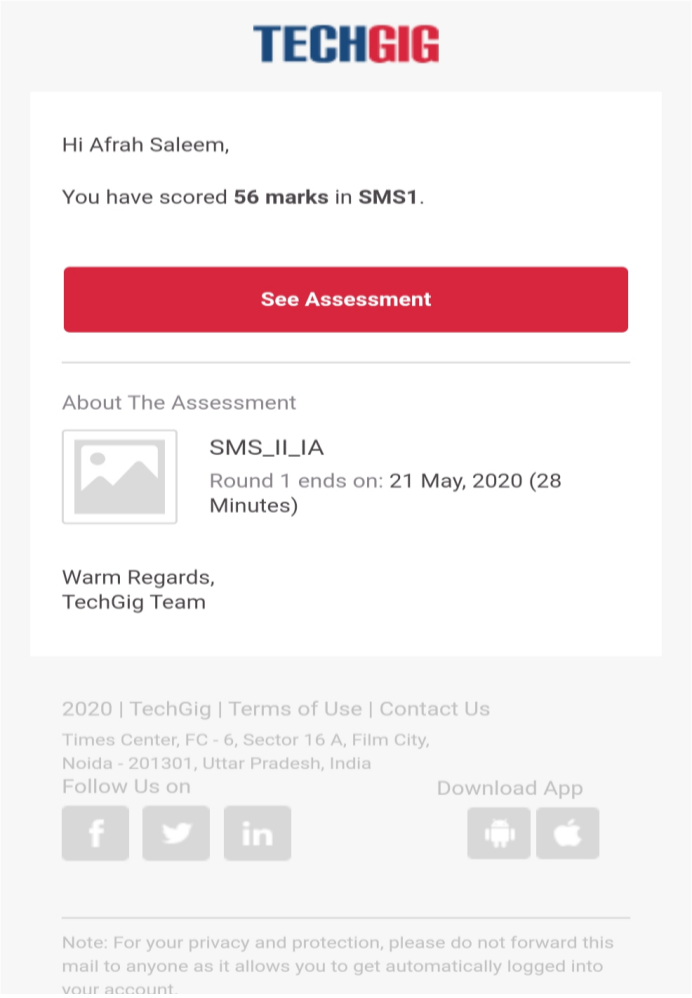
|---|---|---|---|
| **Date:** | **21/5/2020** | **Name:** | **Afrah Saleem** |
| **Sem & Sec** | **8th Sem B section** | **USN:** | **4AL16CS127** |
| **Online Test Summary** | | | |
| **Subject** | **System Model-ling and Simulation** | | |
| **Max. Marks** | **60** | **Score** | **56** |
| **Certification Course Summary** | | | |
| **Course** | **Practical java course: zero to one** | | |
| **Certificate Provider** | **Udemy** | **Duration** | **4 hrs** |
| **Coding Challenges** | | | |
| **Problem Statement:** 1) Write C Program to create Singly Liked List with n elements and reverse the elements using C<br>2) Python program in number right angled triangle<br>3) Write a menu program in Python to find Area-Circle, Circumference-Circle, Area-Square, Circumference-Square using functions with menu choice | | | |
| **Status: Completed** | | | |
| **Uploaded the report in Github** | **Yes** | | |
| **If yes Repository name** | **Afrah** | | |
| **Uploaded the report in slack** | **yes** | | |

## Online Test Details:



TECHGIG

Hi Afrah Saleem,

You have scored **56 marks** in **SMS1**.

See Assessment

About The Assessment

SMS_II_IA

Round 1 ends on: 21 May, 2020 (28 Minutes)

Warm Regards,
TechGig Team

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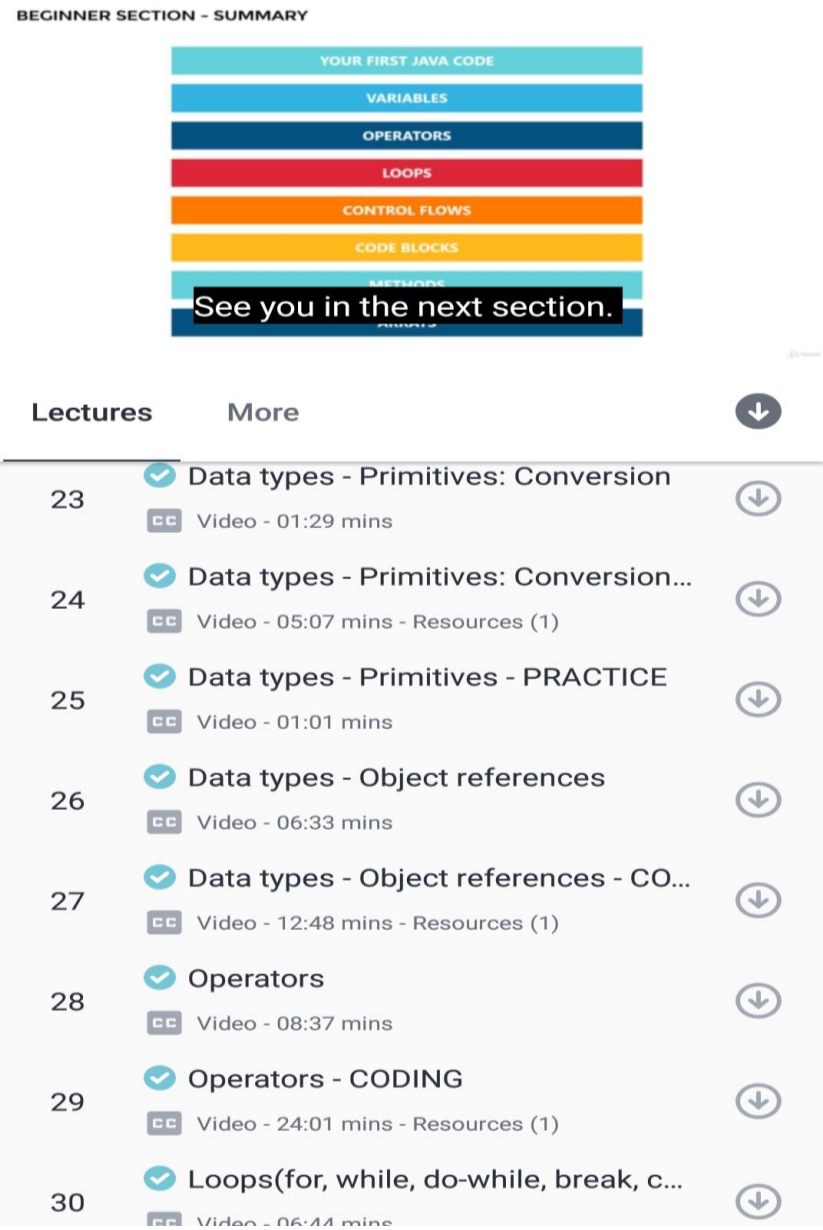
## Certification Course Details:



**Coding Challenges Details:**

**Program 1:**

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

struct  node
{
   int  num;
   struct node *nextptr;
}*stnode;

void createNodeList(int  n);
void reverseDispList();
void displayList();

int  main()
{
                                    int n;
                                    printf("\n\n  Linked  List : Create  a  singly  linked  list  and
print  it in  reverse  order  :\n");

printf("---------------------------------------------------------------\n");

                                    printf("  Input  the  number  of nodes  : ");
                                    scanf("%d",  &n);
                                    createNodeList(n);
```

```
                                printf("\n  Data  entered  in the list are : \n");
                                displayList();
                                reverseDispList();
                                printf("\n  The  list in reverse are : \n");
                                displayList();
                                return  0;
}

void createNodeList(int  n)
{
   struct  node  *fnNode,  *tmp;
   int  num,  i;
   stnode = (struct node *)malloc(sizeof(struct  node));
   if(stnode  == NULL)
   {
      printf("  Memory can not be allocated.");
   }
   else
   {

      printf("  Input  data  for  node  1 : ");
      scanf("%d",  &num);
      stnode->  num  = num;
      stnode->  nextptr  = NULL;
      tmp = stnode;
```

```
      for(i=2; i<=n; i++)
      {
         fnNode = (struct node *)malloc(sizeof(struct node));
         if(fnNode == NULL)
         {
            printf(" Memory can not be allocated.");
            break;
         }
         else
         {
            printf(" Input data for node %d : ", i);
            scanf(" %d", &num);
            fnNode->num = num;
            fnNode->nextptr = NULL;
            tmp->nextptr = fnNode;
            tmp = tmp->nextptr;
         }
      }
   }
}

void reverseDispList()
{
   struct node *prevNode, *curNode;
```

```
    if(stnode != NULL)
    {
        prevNode  = stnode;
        curNode  = stnode->nextptr;
        stnode  = stnode->nextptr;

        prevNode->nextptr = NULL;

        while(stnode  != NULL)
        {
            stnode  = stnode->nextptr;
            curNode->nextptr  = prevNode;

            prevNode = curNode;
            curNode = stnode;
        }
        stnode  = prevNode;
    }
}

void displayList()
{
    struct node *tmp;
    if(stnode  == NULL)
```

```
  {
    printf("  No data  found  in the  list.");
  }
  else
  {
    tmp = stnode;
    while(tmp  != NULL)
    {
      printf("  Data  = %d\n",  tmp->num);
      tmp = tmp->nextptr;
    }
  }
}
```

**Program 2:**

```
rows = int(input("enter  number  of rows "))
        for i in range(0,  rows + 1):
                for j in range(rows  - i, 0, -1):
                        print(j,  end=' ')
                print()
```

**Program 3:**

```
def  AreaCircle(r):
        return  3.142*r*r


def CircumferenceCircle(r):
        return  2*3.142*r
```

```
def AreaSquare(b,h):
        return b*h

def CircumferenceSquare(h):
        return 4*h



def circle():
        r=float(input("Enter Radius Of Circle : "))
        a=AreaCircle(r)
        print("Area Of Circle: ",a)
        c=CircumferenceCircle(r)
        print("Circumference Of Circle is: ",c)
        print("\n-----------------------------------\n")
        return

def square():
        b=float(input('Enter Base Of Square : '))
        h=float(input('Enter Height Of Square : '))
        A=AreaSquare(b,h)
        print("Area Of Square is: ",A)
        CS=CircumferenceSquare(h)
        print("Circumference OfSquare is:",CS)
        print("\n-----------------------------------\n")
```

```
        return


while(1):
        n=int(input("1: CILRCLE\n2: SQUARE\n3: EXIT\n"))
        print("\n------------------------------------\n")
        if n==1:
                circle()
        elif n==2:
                square()
        else:
                exit(0)
```