

DAILY ONLINE ACTIVITIES SUMMARY

Date:	07-06-2020	Name:	D Jasmine Joyline
Sem & Sec	VI Sem A	USN:	4AL17CS024
Online Test Summary			
Subject	SSCD		
Max. Marks	30	Score	16
Certification Course Summary			
Course	MACHINE LEARNING WITH PYTHON		
Certificate Provider	IBM	Duration	12hr
Coding Challenges			
Problem Statement: <ol style="list-style-type: none"> 1. Python program the first and last 5 elements 2. Write a Python program to perform Cyclic Redundancy Check 			
Status:Completed			
Uploaded the report in Github		Yes	
If yes Repository name		https://github.com/alvas-education-foundation/D_Jasmine_Joyline/tree/master/daily_progress	
Uploaded the report in slack		Yes	

Online Test Details:

SSCD IA TEST

The screenshot shows a web browser window displaying the 'Challenge Overview' for 'SSCDIA3' by TechGig. The page lists three tests:

- Test 1: MCQ**
Your Highest Score: 8 | Max Score: 11 | Start Test
- Test 2: Analysis Round 1**
Your Highest Score: 2 | Max Score: 10 | Start Test
- Test 3: Analysis Round 2**
Your Highest Score: 6 | Max Score: 9 | Start Test

A 'Summary' box on the right indicates the skills tested are 'SS, Problem Solving Skills, Analysis' and the challenge ends on '07 Jun'.

Certification Course Details:

Module that I have completed today:

Module 1 - Introduction to Machine Learning

- Applications of Machine Learning
- Supervised vs Unsupervised Learning
- Python libraries suitable for Machine Learning

The screenshot shows the 'Python for Machine Learning' course page on Cognitive Class. The course is titled 'Python for Machine Learning (6:10)' and is part of the 'Machine Learning with Python' track. The page includes a video player for the course introduction, which features the title 'Python for Machine Learning' and the instructor's name 'Saeed Aghabozorgi'. The video player also displays a transcript snippet: 'Hello, and welcome! In this video, we'll talk about how to use Python for machine learning. So let's get started. Python is a popular and powerful general-purpose programming language that recently emerged as the preferred language among data scientists. You can use your machine learning algorithm...'.

Coding Challenges Details:

1. Python program the first and last 5 elements

Description:

Print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included)

Eg: If the range of elements is 20

Then output is:

[1,4,9,16,25]

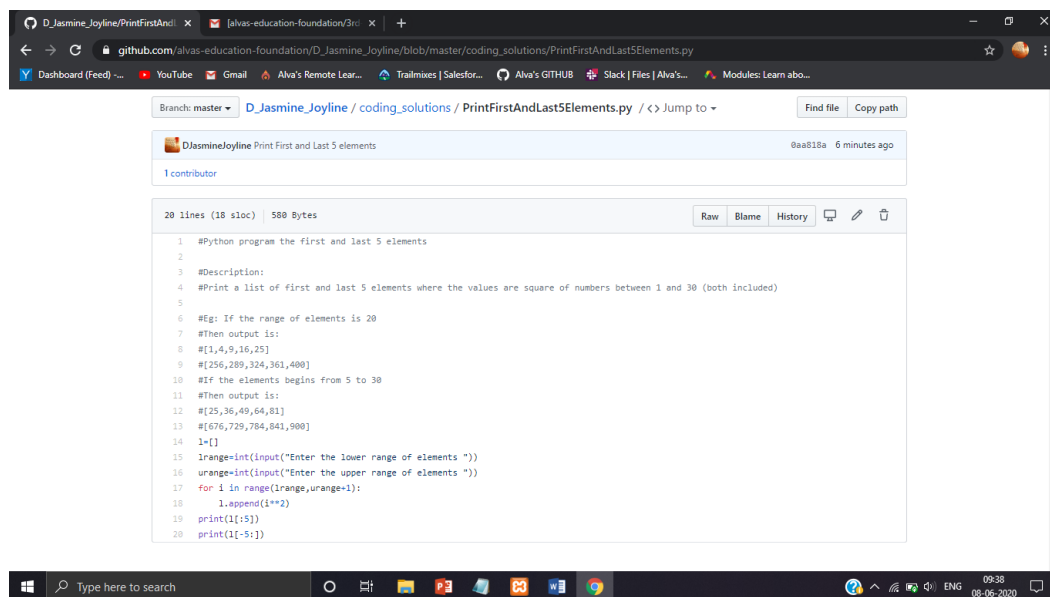
[256,289,324,361,400]

If the elements begins from 5 to 30

Then output is:

[25,36,49,64,81]

[676,729,784,841,900]



The screenshot shows a web browser displaying a GitHub repository page for a file named `PrintFirstAndLast5Elements.py`. The file is 20 lines long and 588 bytes. The code is a Python program that takes user input for a range of numbers and prints the first and last 5 squares of that range. The code includes comments for description and examples.

```
1 #Python program the first and last 5 elements
2
3 #Description:
4 #Print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included)
5
6 #Eg: If the range of elements is 20
7 #Then output is:
8 #[1,4,9,16,25]
9 #[256,289,324,361,400]
10 #If the elements begins from 5 to 30
11 #Then output is:
12 #[25,36,49,64,81]
13 #[676,729,784,841,900]
14 l=[]
15 lrange=int(input("Enter the lower range of elements "))
16 urange=int(input("Enter the upper range of elements "))
17 for i in range(lrange,urange+1):
18     l.append(i**2)
19 print(l[:5])
20 print(l[-5:])
```

2. Write a Python program to perform Cyclic Redundancy Check


CRC uses Generator Polynomial which is available on both sender and receiver side.



An example generator polynomial is of the form like $x^3 + x + 1$. This generator polynomial represents key 1011. Another example is $x^2 + 1$ that represents key 101.

Data word to be sent - 100100

Key - 1101 [Or generator polynomial $x^3 + x^2 + 1$]

Branch: master | D_Jasmine_Joyline / coding_solutions / CRC.py / <> Jump to ▾ | Find file | Copy path

 D_Jasmine_Joyline Cyclic Redundancy Check | b4bdf3 14 seconds ago | 1 contributor

86 lines (38 sloc) | 1.43 KB | Raw | Blame | History |  

```
1 #Write a Python program to perform Cyclic Redundancy Check
2
3 #CRC uses Generator Polynomial which is available on both sender and receiver side. An example generator polynomial is of the form like x3
4 #Data word to be sent - 100100
5 #Key - 1101 [ Or generator polynomial x3 + x2 + 1]
6
7
8 def xor(a, b):
9
10     result = []
11
12     for i in range(1, len(b)):
13
14         if a[i] == b[i]:
15
16             result.append('0')
17
18         else:
19
20             result.append('1')
21
22
```

Type here to search | 09:38 08-06-2020