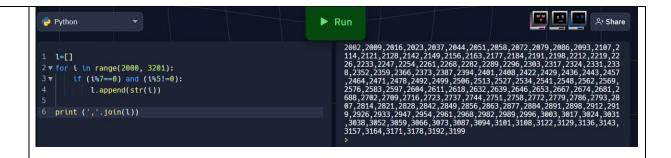# Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	16-11-2022
Team ID	PNT2022TMID46289
Project Name	REAL TIME COMMUNICATION SYSTEM POWERED BY AI SPECIALLY ABLED **Assignment -1** Python Programming

Assignment Date	16-11-2022
Student Name	V.VINITHA
Student Roll Number	815819104027
Maximum Marks	2 Marks

Question-1:

Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

Solution:

```
l=[]
for i in range(2000, 3201):
    if (i%7==0) and (i%5!=0):
l.append(str(i))



print (','.join(l))
#-------------------------------------#
#-------------------------------------#
```

```
1  l=[]
2 ▾ for i in range(2000, 3201):
3 ▾     if (i%7==0) and (i%5!=0):
4             l.append(str(i))
5
6  print (','.join(l))
```

```
2002,2009,2016,2023,2037,2044,2051,2058,2072,2079,2086,2093,2107,2
114,2121,2128,2142,2149,2156,2163,2177,2184,2191,2198,2212,2219,22
26,2233,2247,2254,2261,2268,2282,2289,2296,2303,2317,2324,2331,233
8,2352,2359,2366,2373,2387,2394,2401,2408,2422,2429,2436,2443,2457
,2464,2471,2478,2492,2499,2506,2513,2527,2534,2541,2548,2562,2569,
2576,2583,2597,2604,2611,2618,2632,2639,2646,2653,2667,2674,2681,2
688,2702,2709,2716,2723,2737,2744,2751,2758,2772,2779,2786,2793,28
07,2814,2821,2828,2842,2849,2856,2863,2877,2884,2891,2898,2912,291
9,2926,2933,2947,2954,2961,2968,2982,2989,2996,3003,3017,3024,3031
,3038,3052,3059,3066,3073,3087,3094,3101,3108,3122,3129,3136,3143,
3157,3164,3171,3178,3192,3199
›
```

Question-2:

With a given integral number n, write a program to generate a dictionary that contains (i, i*i) such that is an integral number between 1 and n (both included). and then the program should print the dictionary.

Suppose the following input is supplied to the program:
8

Then, the output should be:
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}

Solution:

```
n=int(input())
d=dict()
for i in range(1,n+1):
    d[i]=i*i


print d
#--------------------------------------#
#--------------------------------------#
```

Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	
	Dashboard					

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts