**Maths Project**

Hi, everyone! Good Afternoon. Hope everyone is keeping well and staying safe. As you all know due to this covid situation now a days everything is online like offices, shopping, classes, school & colleges. Considering the current situation, we have decided to come online to show case our newly created project. We are here with a website which will make your Maths easy (Or we can say it will help you in solving problems online). The Languages which are used while creating our website is HTML, CSS, Python & JavaScript. And now its time to know the name of the website which is **Quiz Heads.**

Let me share my screen, so that I can provide you all walkthrough of my project. Are you all able to see my screen?

Okay that’s great. So, let’s get started!

**Layout of the website.**

As you all can see in the beginning of the page you can see the navigation bar that is -Home, About, Our Team and **QUIZ** button.

After that you can see the Heading **READY TO GET STARTED?** With the tagline and with the Read More button. As you can see here.

If you go down the page, you can see the main topic i.e., **AP Arithmetic Progression** on which we have worked on to create this website**.**

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**I**n the Arithmetic progression, there are three main aspects which will be explained by my other team members. So, I would like to handover to Ajit to enlighten on the first aspect. Over to you Ajit.

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Ajit Part-1

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Thankyou Rishab. Hi everyone, I am here to explain the first aspect i.e., What is it?

So guys, what comes to your mind when we say **What is it?** Definitely, you think what the topic is and what things are covered under this topic.

So, I will explain about what the Arithmetic Progression is.

A mathematical sequence in which the difference between two successive terms is always a constant and it is abbreviated as AP.

i.e. difference has to be equal in AP

Ex.1,5,9,13, etc… in this sequence the difference is constant i.e., 4.

This was all about the first aspect. Now I would like to request Vishweshwar to take it from here. Over to you Vishweshwar.

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Vishweshwar part-1

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Thankyou Ajit. So guys, I guess you all are clear with the first aspect. Now, I will explain you all the second aspect i.e., **When It Will Help?**

After hearing the definition from Ajit, I can say that arithmetic progression can applied in real life by analyzing a certain pattern that we see in our day to day life.

For a example, is when you are waiting for a bus. Assuming that the traffic is moving at a constant speed you can predict that when the next bus will come.

If you ride a taxi, this also has an arithmetic sequence. Once you ride a taxi you will be charge an initial rate and then a per mile or kilometer will be charge. This shows that an arithmetic sequence that for every kilometer you will be charge a certain constant rate plus the initial rate.

For the conclusion of this aspect

Arithmetic sequence can be applied in almost all aspects of our lives. We just have to analyze how it can be used in our day-to-day life. Having knowledge about this kind of sequence, can give us a different perspective on how things happen in our lives.

Now I would like to ask Utkarsha to take it from here and explain the next aspect.

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Utkarsha part-

Thank you Vishweshswar . Hi everyone I am here to explain the last aspect i.e., How do we solve it. So as we know that ap is a sequence with common difference. So the main element of ap is commen difference so to find common difference of the sequence the formula is D=d2-d1

So as the formula to count who many terms are there in the sequence is nth Term of an AP (Jeneral term of ap)

an = a + (n − 1) × d

a = First term

d = Common difference

n = number of terms

an = nth term

And to find the sum of all terms is also given by the formula i.e. sum of first n terms

Sn= n/2[2a+(n+1)d] and the live example of ap is cinema theater

As we know that the no of chairs in first row are less than the second row and so on with all the rows so the diffence is common and we can count no chairs in the theater.

Now I would like to ask Rishab to take it from here and explain the next part.

Rishab- part

Thankyou Utkarsha. So guys, finally we have covered all the aspects of Arithmetic Progression and I hope you all are now clear with all the above three aspects.

And at the bottom of the page we have also mentioned the details of Our Team where u can get to see all our Team Members & there contribution for this Project. But for now, we’ll skip this. But yeah definitely at the end we will cover this as well.

Now, it’s time to move to the heart of this Project that is the **QUIZ**. Now let’s go to the start of the page, at the top-right corner there is a button named **Quiz**.

When you click on the Quiz Button, you will be navigated to another page i.e., the Welcome page for the Quiz and where you can see the Start Quiz button.

When you click on the Start quiz button you will get a pop up with some rules and Exit quiz button along with the Continue button. Once, you click on Continue button you will be able to proceed further with the first question and accordingly you can test your ability, how much you know about that topic.

Everyone should go through this quiz game once to test their skills, all you will get is 15 sec for each question, and after the submission you can see your result for that question.

And if you have got that question wrong, then you can see “Down Arrow” where you can get the explanation of that particular question. In simple words, go to the bottom of the page where we have added explanation of each question, Everyone can simply go and check the correct answer with its’ explanation which will definitely clear your doubts and concepts. And you can give the test again to improve your score and your knowledge.

If you get the correct answer then you can see the “Next Que” button. After clicking on that button you can move to the next question.

And at the end you can see your Total Score for that Quiz with “Replay Quiz” button and “Quit Quiz” button. Once, you click on “Replay Quiz” button then you can give another try to the quiz and if you click on “Quit Quiz” button then you will be redirected to the Quiz’s Welcome page.

Let me give you all a demo of this QUIZ.

Now, it’s time to know about our all contributors for this project.

1. Ajit: I am Ajit. I have motivated the team members. I have contributed in Data Mining and Python Code. I have done some R & D around the python code and done the data analysis.
2. Utkarsha Jadhav: I am Utkarsha. I have performed the role of Data Analyst in this project. I have contributed towards the mining of data for the Application of Maths.
3. Vishweshwar Shinde: I am Vishweshwar. I have played the role of Backend Developer in this project. I have contributed in JavaScript and also performed few R & D around the data for Application of Maths.
4. Rishab Singh: I am Rishab Singh. I have played the role of Frontend Developer in this project where I have contributed for the UI development to make the QUIZ Heads project user friendly and also worked on the smoothness of the Maths Pop Quiz. And I have done few R & D’s around the data mining.

So guys, this was all about the project and its contributors. Hope you all liked this project. And if you want us to add some more topics to it, then please let us know.

Or if you have any suggestions, please feel free to reach out to us. Definitely, we will have a look and try to make this project more efficient and useful. And if you want to add something to the existing project then you can go the git hub repository <https://github.com/FastCodee?tab=repositories> and you can add your ideas and implementations over there.

Thankyou everyone for your patience listening. Bye and have a great day.