Amrita Vishwa Vidyapeetham
Amrita School of Engineering, Amritapuri Campus
Vallikavu PO, Amritapuri, Clappana, Kerala 690525

Title: INTRODUCTION TO WORLD OF COMPETETIVE PROGRAMMING

STUDENT SOCIAL RESPONSIBILITY PROJECT

SSR20-21 - 072

OVERVIEW:

When we set out to carry out our SSR project our main motive has been to create awareness among people about how can one improve himself in programming. The main aim is to provide the base for the development of their programming skills, which are lacked in many of the students due to inadequate knowledge about it. Programming is one of the most important thing each and every student should know and perfect about it. But sadly, due to pressure they face in their +1 and +2 and how to crack JEE Mains and Advanced they do not even look at it and mostly don't even know about it. They face this issue once they enter into Engineering, which will be a difficult task to learn with their present studies.

To create awareness in students, our team of 6 members thought of using opportunity provided by our college which we are very thankful to spread information and resources which helps them at their very foundation and the resources we gave help them to practice with the help of contests and ratings help to keep them in track and online.

We brought in an alumnus who shared his experiences about how programming has helped him and his experiences. Advantage of bringing the alumina is that he is recently passed out and his experience in placements played an important role about coding round in companies' exams. The alumina also shared his experience about HR interview round and Technical rounds. Q and A session was conducted later where he gave an insight into how the industry is and where can a student develop which could help him in the future.

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Acknowledgments:

At the outset, We thank the God Almighty for the grace, strength and hope to make our endeavour a success. We express our sincere gratitude to our guide Anuja mam and all CIR faculty, Amrita Vishwa Vidyapeetham for their exemplary guidance, monitoring and constant encouragement without which the successful completion of this report would not have been possible.

We are also highly grateful to Amrita Vishwa Vidyapeetham, Amritapuri for providing the opportunity to guide and present the session. We would like to thank our teammates, who stood by us, whenever we needed their assistance and also gave us the strengths to carry on. We would like to express my gratitude towards our parents and family for their kind co-operation and encouragement which help us in completion of our project work.

Special thanks to our guest speaker, MR. Phani Datta for sharing his industrial experience and guidance. We would also like to thank the audience for their interest and patience for their participation and interaction in the webinar.

SSR at Amrita University-An overview:

Student Social Responsibility is one of the opportunity provided by the Amrita Vishwa Vidyapeetham to serve the humanity. Students as the responsible citizens of the country has to observe the society around them and should work for the development of the people around them and to solve the persisting problems with the innovative solutions. As part of the SSR program students have to team up and suggest programs and solutions to develop and help the society.

This is one of the program at Amrita Vishwa Vidyappetham that allows the students to interact with the outside society and find their problems. This not only develops the problem solving capacity of the student but also increases the awareness and develops the sense of social responsibility among the students.

SSR program is organised by the corporate industrial relationship department under which students are mentored by the expert guides who helps them to develop their idea and implement them in a large scale.

TEAM:

This team consists of passionate and enthusiastic under graduate students who are ready to serve the society.

VAMSI KRISHNA CH

ROHITH GS

JAYA SAI DEEPAK V

K PHANINDRA KUMAR

NEERAJ M

TEJASWI P

BACKGROUND OF THE PROBLEM:

Lack of effective awareness about how important programming is in this modern world. Despite knowing different programming languages there hasn't been much information about how to use the programming skills. The platforms which enable to practice the languages and the web sites that can referred are something not known to many.

➢ What's happening in the outside world:

Unless one goes to the industry one cannot know what is the method one needs to follow. How to implement the knowledge gained in the university is something important and knowing what must be learnt, where to improve if you want to get placed in dream company is lacking. In metropolitan cities like Banglore, Delhi, Chennai, Hyderabad students are familiar and some of them are trained to be experts in programming languages and also far advanced with cyber security fields and all. Due to this many of the students are not able to compete them during higher educations. To solve this major problem we thought of this topic.

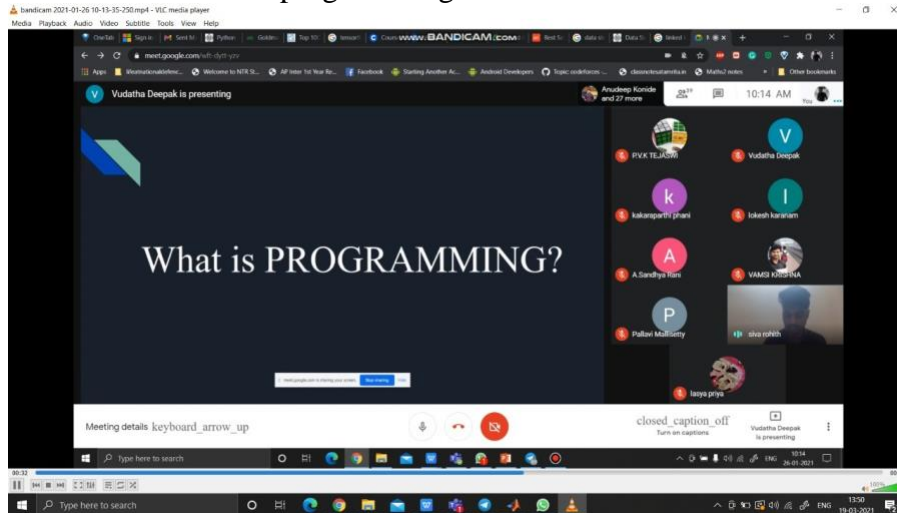➢ Lack of Resources and proper mentoring:

There are students aware of programming and its very importance in the new era. But many of them don't know where to start programming, how to understand basics with strong foundation. And many don't have the resources to cop-up with it. This is one of the main problem we have seen in many students. This is the most important objective from our side as our theme of this event is to familiarize students with numerous references and contests where they can excel in their programming field. We shared websites, apps and some other web applications where they can work on with programming.
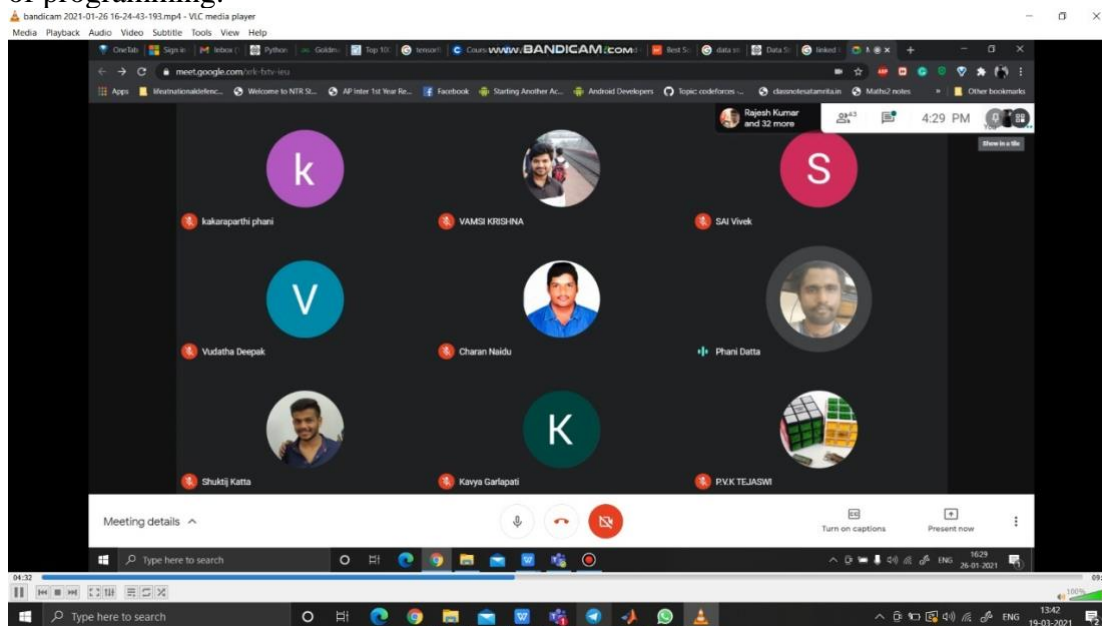
OBJECTIVE:

➢ Complete introduction to Competitive Programming.
➢ Advantages of programming at a young age.
➢ Introduction to different programming languages
➢ How Programming helps us to be in pace with competitive world
➢ Different platforms where one can improve competitive skills.
➢ Role of competitive programming in industrial world
➢ Pep talk with industrial experts
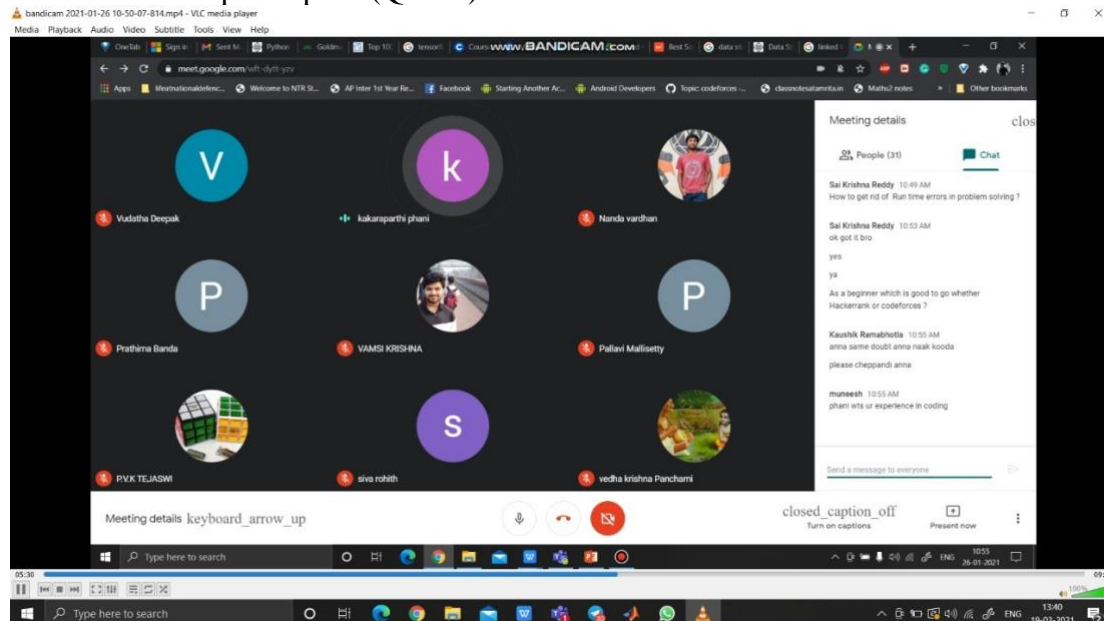
EVENT ACTIVITIES:

Introduction to basic programming:

Senior and Alumini of Amrita working in IBM sharing his work experience and importance of programming.

Interaction with participants(Q & A)

ACHIEVEMENTS:

- ➢ All the objectives were covered successfully.
- ➢ Great response and review from the participants.
- ➢ Interactive session between alumina and students.
- ➢ Helped many students to get a clear view regarding placements.
- ➢ References were given to the participants to improve their programming skills

CHALLENGES FACED:

- ➢ Online interaction was a bit difficult as we have to wait for each and every participant who registered for the meet.
- ➢ Interaction might be much more interesting if we had offline session.
- ➢ Requesting seniors was a small challenge, as we don't know whom to take the session because most of our seniors were good.
- ➢ There were minor drawbacks in sessions due to some network issues.

ROAD AHEAD:

- ➢ Providing contacts to connect virtually with audience members via mail or WhatsApp.

> ➢ Having more guest lectures in the near future where many can get a picture into the corporate world and know something about how the industry works.

STUDENT EXPERIENCE:

A unique and memorable experience. We are happy to have live interactive sessions with students we don't know for the first time. Asking seniors to take one of our session to help students was one of the best idea we got. Due to this we also got opportunity to meet our senior once again and clarify our doubts also regarding the second session. Would have liked to do it in-person but nevertheless we learned a lot.

The reason we believed in having in-person session is that, we can able to present the students with 100% capacity looking into their eyes. It would be far more successful and helpful if we have done it in a offline way. We are thankful for Amrita Vishwa Vidyapeetham for letting us have a beautiful and unforgettable memory and experience.