

# Khidmat: Teaching Programming on Scratch

Syed Ahsan Ahmed  
sa02908

This project is to teach programming concepts on Scratch using Drag-Drop programming to underprivileged students at Fixit School.

Fixit School is a non-profit organization and an initiative by FIXIT to provide free education to the underprivileged children of Pakistan. Students of all ages are taught fundamental subjects, such as English , Maths, Science, Urdu, Islamiat.

Fixit School teaches its students the fundamental subjects of Science and Literature. It was felt that the students should be taught basic programming concepts on Scratch (Drag-Drop programming) that they can use in the lives ahead and progress in the field of Computer Science.

We will be teaching the students 2 hours daily on Fixit School's premises under the supervision of their Admission Manager. The goal is to teach them the basic programming concepts and make them capable of building their own games using drag-n-drop programming on Scratch.

## Week 1: 14–18 May, 2018

We spent this week teaching the students for-loops, and if-statements. Board games, two 'Hour of Code' and the EDVON software, were used to teach these concepts.

Item	Activity	Time	ID
1	Board games	2.5 hrs	sa02908
2	Hour of Code practice (2 sessions)	2.5 hrs	sa02908
3	For loops	2.5 hrs	sa02908
4	If Statements	2.5 hrs	sa02908

The total time spent on the Khidmat this week is as follows.

ID	Total Hours
sa02908	10 hours

## Week 2: 21–25 May, 2018

We spent this week teaching the students while-loops, along with practice on hour of code. Students were also familiarized with EDVON.

Item	Activity	Time	ID
1	While loops	2.5 hrs	sa02908
2	Hour of Code practice	2.5 hrs	sa02908
3	Edvon Practice (loops)	5 hrs	sa02908

The total time spent on the Khidmat this week is as follows.

ID	Total Hours
sa02908	10 hours

### Week 3: 28 May–1 June, 2018

We spent this week teaching the students about Events, variables, and the types of variables.

Item	Activity	Time	ID
1	Events	2.5 hrs	sa02908
2	Variables	2.5 hrs	sa02908
3	Edvon Practice (events)	5 hrs	sa02908

The total time spent on the Khidmat this week is as follows.

ID	Total Hours
sa02908	10 hours

## Week 4: 4–8 June, 2018

We spent this week giving students extensive hands-on-learning experience and creating games.

Item	Activity	Time	ID
1	Edvon Practice (all)	10 hrs	sa02908

The total time spent on the Khidmat this week is as follows.

ID	Total Hours
sa02908	10 hours

## Week 1: 11–14 June, 2018

We spent this week giving students dense hands-on-learning experience and creating games games.

Item	Activity	Time	ID
1	Edvon Practice (all)	4 hrs	sa02908
2	Exam	2.5 hrs	sa02908
3	Viva	1.5	sa02908

The total time spent on the Khidmat this week is as follows.

ID	Total Hours
sa02908	8 hours

## Conclusion

Our project was to teach the students of Fixit School programming on Scratch. We started by teaching them concepts like loops and statements through on-board games and then moved to 'Hour of Code' sessions. After the students had done sufficient practice on it, we moved them to EDVON and familiarised them with its tools. At the end of the classes, students had learned to create their own games on EDVON/Scratch, and had already developed 10+ games, including a multiplayer game.

## Khidmat Completion Form

To be completed by the external supervisor.

*Please use the space below to provide any comments you may have on the students' performance, the Khidmat program, or any other feedback you want to share with Habib University's Khidmat committee. We can also be reached at [khidmat@sse.habib.edu.pk](mailto:khidmat@sse.habib.edu.pk).*

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I hereby certify that I supervised Syed Ahsan Ahmed for the Khidmat described in this report. Furthermore, that I have read and agree with the weekly updates included in this report. My signature below marks the successful completion of the work undertaken for the Khidmat.

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Name and signature

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Location and date



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Fixit School Management is thankful to Habib University's Khidmat Committee to provide best services free of cost. I, personally, thank Mr. Syed Ahsan Ahmed to serve his services with dedication.

Looking forward to see you in future. :)

I hereby certify that I supervised Syed Ahsan Ahmed for the Khidmat described in this report. Furthermore, that I have read and agree with the weekly updates included in this report. My signature below marks the successful completion of the work undertaken for the Khidmat.

  
Name and signature

Fixit School.  
At Abul Hasan Asghari Road  
Location and date

20 Jul, 18.