



STEMFest24

Empowering students as thinkers, problem solvers through engaging activities, insightful talks.

How to submit projects



Step 1

Choose a theme from the themes provided

For Example: Affordable and clean energy

- Go to Google and search about this topic, watch videos or search in Chat-GPT
 - Based on it choose the problem statement
-

Step 2

Choose a problem statement and its solutions

1. Develop an informative campaign to educate the community about the benefits of renewable energy, emphasizing the environmental advantages, cost savings, and long-term sustainability. **(Canva Poster/PPT)**
2. Establish an online platform (website, social media group) to share information, success stories, and resources related to renewable energy. Facilitate discussions and provide a space for community members to ask questions and seek advice. **(App Inventor/ HTML/WIX)**

Step 3 | Choosing a platform

You can use :

1. **Coding Platforms**

Canva, Scratch, Code.org, App Inventor, Krita, MS Paint, Python, HTML, WIX

2. **Robotics Kit**

Step 4

MIT APP Inventor Based Solution

Type **app inventor** and open the first link



The screenshot shows a Google search for "app inventor". The search bar contains "app inventor" and the Google logo is on the left. Below the search bar are filters: "Images" (2), "Download", "Login", "Videos", "Without login", "Tutorial", "Code", and "News". On the right, there are icons for settings and a flask, and the text "All filters" and "Tools".

Below the filters is a light blue bar with the text "Get an AI-powered overview for this search?" and a "Generate" button.

The search results are displayed below. The first result is for "MIT App Inventor" with the URL "https://appinventor.mit.edu". The title is "MIT App Inventor" and the description is "During Spring 2023, App Inventor team offered the Introduction of Mobile Computing and Artificial Intelligence course at Maine State Prison. The project was ...". Below the description are several links: "App Inventor" (with a note "Your browser might not be compatible. To use App Inventor ..."), "Get Started" (with a note "Get Started with MIT App Inventor · App Inventor is an online tool ..."), "Code" (with a note "Welcome to MIT App Inventor! or. Your Revisit Code: - - -. Login ..."), "Our Tutorials!" (with a note "Beginner Tutorials - AI with App Inventor - CloudDB Chat App - ..."), and "Password" (with a note "Welcome to App Inventor! ... Have the code we e-mailed you? MIT ...").

On the right side of the search results, there is a detailed card for "MIT App Inventor" with the subtitle "Computer application". The card contains the following information: "MIT App Inventor is a high-level block-based visual programming language, originally built by Google and now maintained by the Massachusetts Institute of Technology. It allows newcomers to create computer applications for two operating systems: Android and iOS, which, as of 25 September 2023, is in beta testing. Wikipedia". Below this is a list of "Programming languages: Java, JavaScript, Swift, Objective-C, Scheme, Kawa", "Initial release date: 15 December 2010", "Original author(s): Hal Abelson, Mark Friedman", "Developer(s): Google, MIT Media Lab, MIT Computer Science and Artificial Intelligence Laboratory", "Available in: 19 languages", and "Operating system: Android, iOS".

Step 4

MIT APP Inventor Based Solution

Click on **Create Apps**

The screenshot shows the MIT App Inventor website homepage. The browser address bar displays <https://appinventor.mit.edu>. The page features the MIT App Inventor logo on the left, a navigation menu with links for 'About', 'For Educators', 'News & Events', 'Get Involved', and 'Resources', a 'Donate' button, and a search icon. A prominent orange button labeled 'Create Apps!' is highlighted with a brown arrow pointing from the text 'Click on Create Apps'. Below the navigation is a large hero section with a background of a grid of dots, featuring the text '[Internet of Things]' and 'Gathering Data from Wireless Sensors'. At the bottom, there are four statistics cards: 'USERS TODAY: 64.59 K', 'USERS THIS MONTH: 936.94 K', 'ALL-TIME USERS: 18.1 M', and 'APPS BUILT: 85.4 M'. The URL <https://appinventor.mit.edu> is visible in the bottom left corner of the browser window.

Step 4

MIT APP Inventor Based Solution

'o/oauth2/v2/auth/oauthchooseaccount?response_type=code&client_id=835377224499-p6kuf1tm823g8vmvkl7urs5r0gf... A ☆

Choose a Gmail account



Sign in with Google

Choose an account
to continue to [App Inventor Authentication](#)

	@gmail.com	Signed out
	1@gmail.com	Signed out

Use another account

To continue, Google will share your name, email address, language preference and profile picture with App Inventor Authentication.

English (United Kingdom) ▼ Help Privacy Terms

Step 4

MIT APP Inventor Based Solution

Click on **Create Apps**

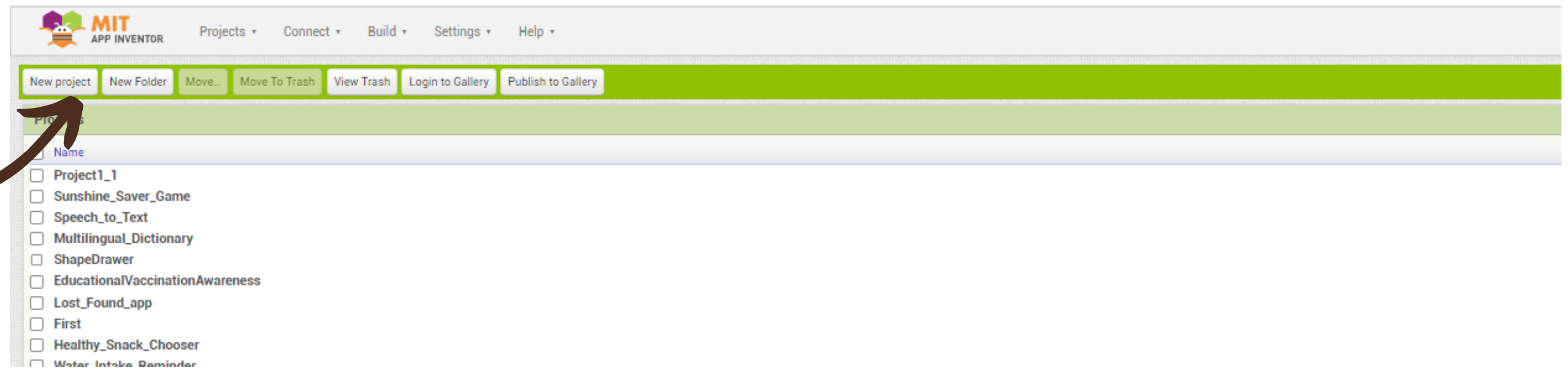
The screenshot shows the MIT App Inventor website homepage. The browser address bar displays <https://appinventor.mit.edu>. The page features the MIT App Inventor logo on the left, a navigation menu with links for 'About', 'For Educators', 'News & Events', 'Get Involved', and 'Resources', a 'Donate' button, and a search icon. A prominent orange button labeled 'Create Apps!' is highlighted with a brown arrow. Below the navigation is a large banner with a grid of dots and the text '[Internet of Things] Gathering Data from Wireless Sensors'. At the bottom, a statistics section displays four metrics: 'USERS TODAY: 64.59 K', 'USERS THIS MONTH: 936.94 K', 'ALL-TIME USERS: 18.1 M', and 'APPS BUILT: 85.4 M'.

Metric	Value
USERS TODAY:	64.59 K
USERS THIS MONTH:	936.94 K
ALL-TIME USERS:	18.1 M
APPS BUILT:	85.4 M

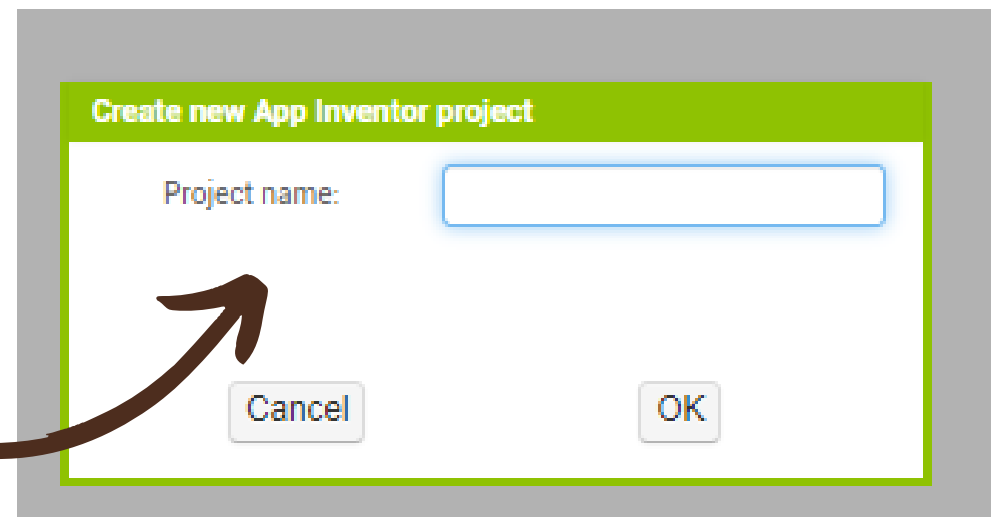
Step 4

MIT APP Inventor Based Solution

Click on **New Project**



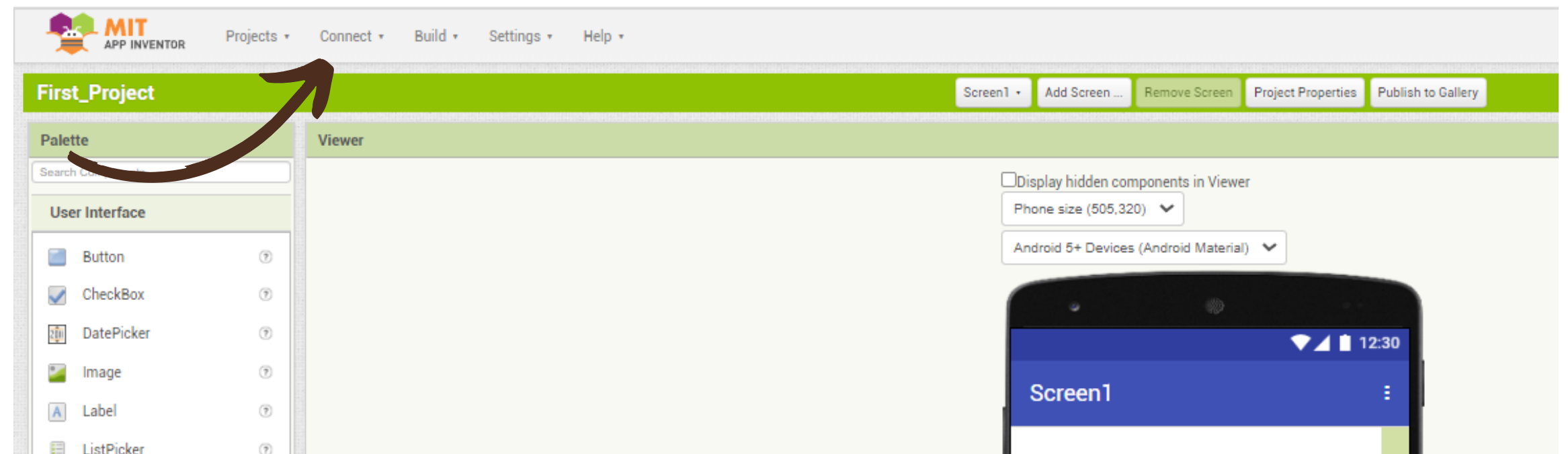
Enter the Project name without any **spaces** like **First_Pro** and click **OK**



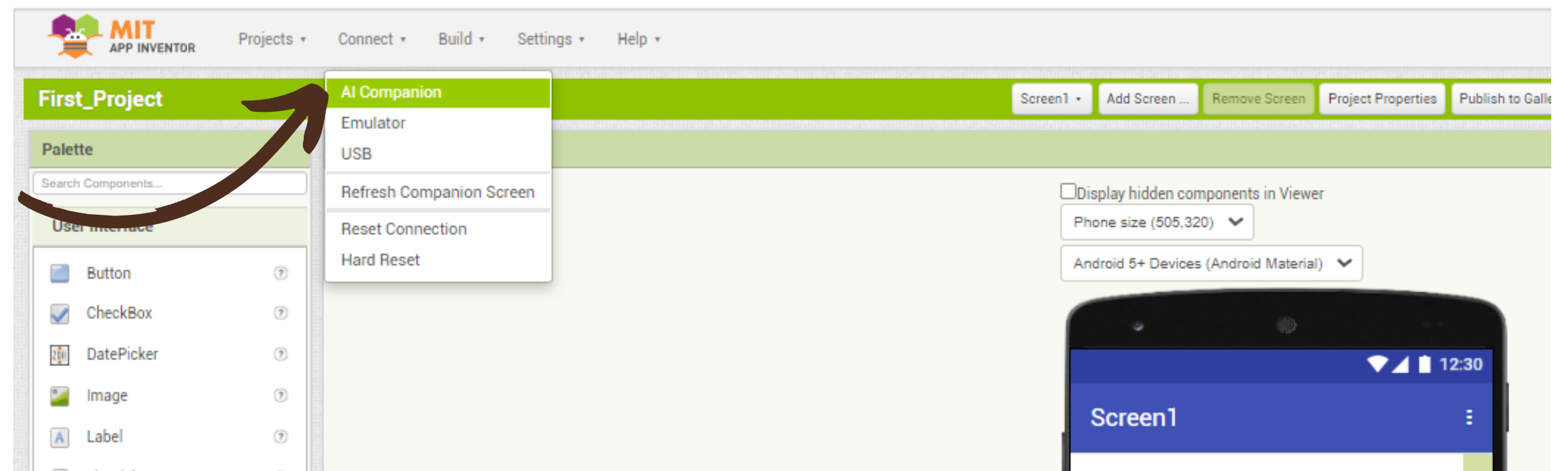
Step 4

MIT APP Inventor Based Solution

1. Complete the project
2. Click on **Connect**



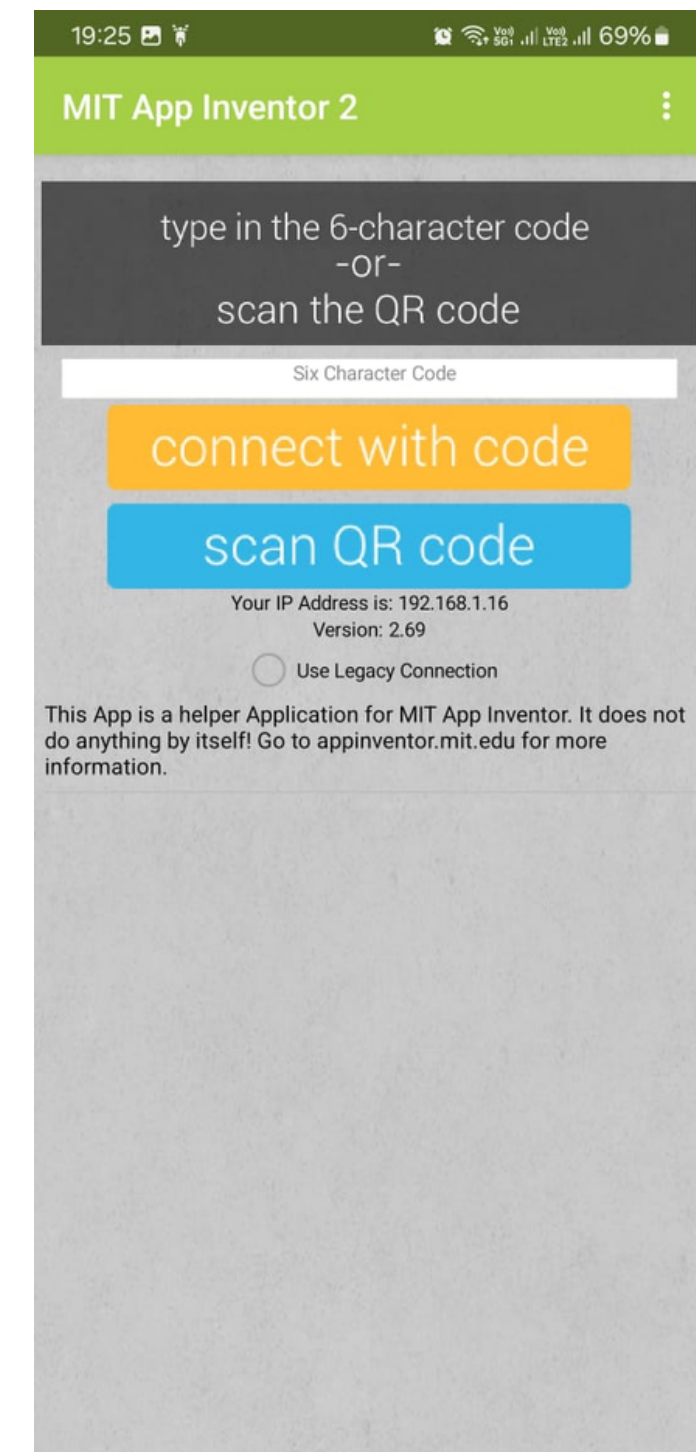
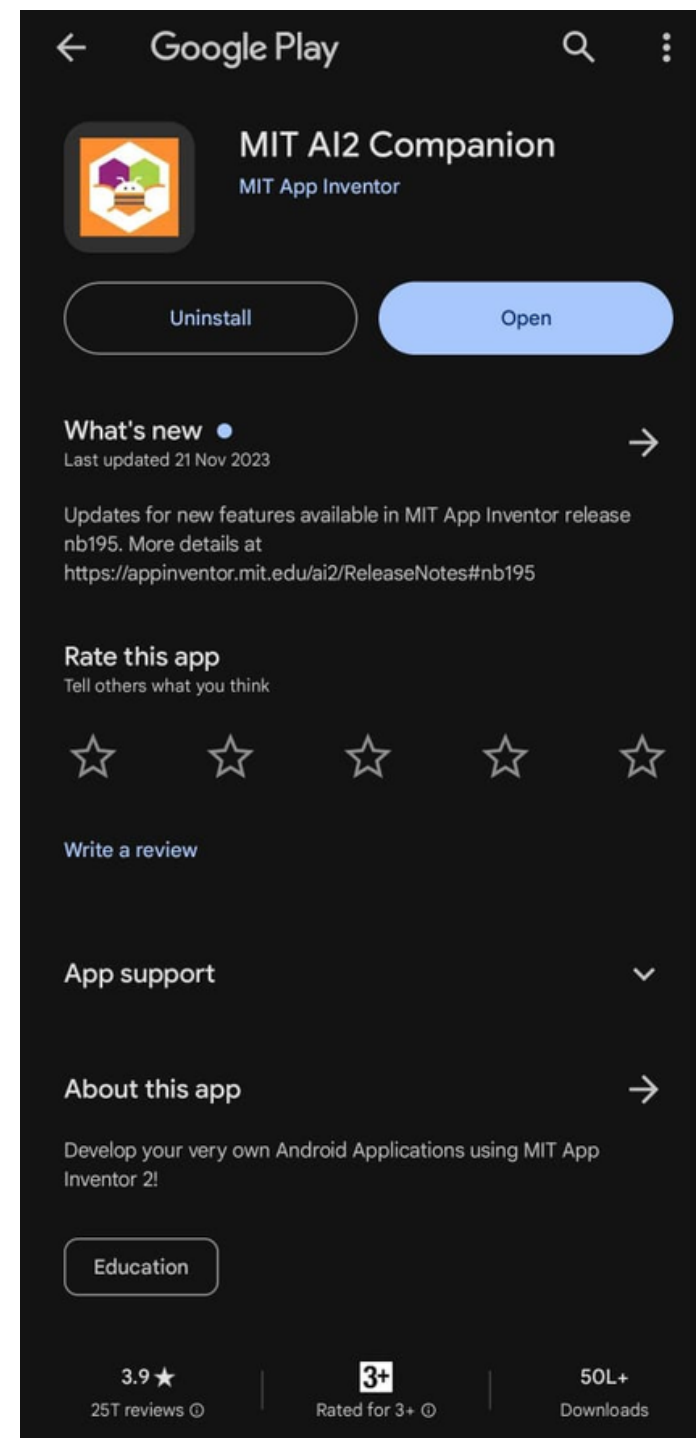
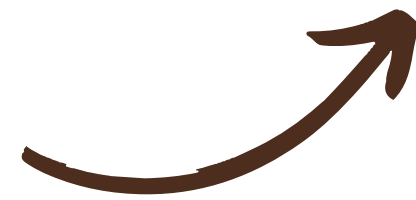
Click on **AI Companion**



Step 4

MIT APP Inventor Based Solution

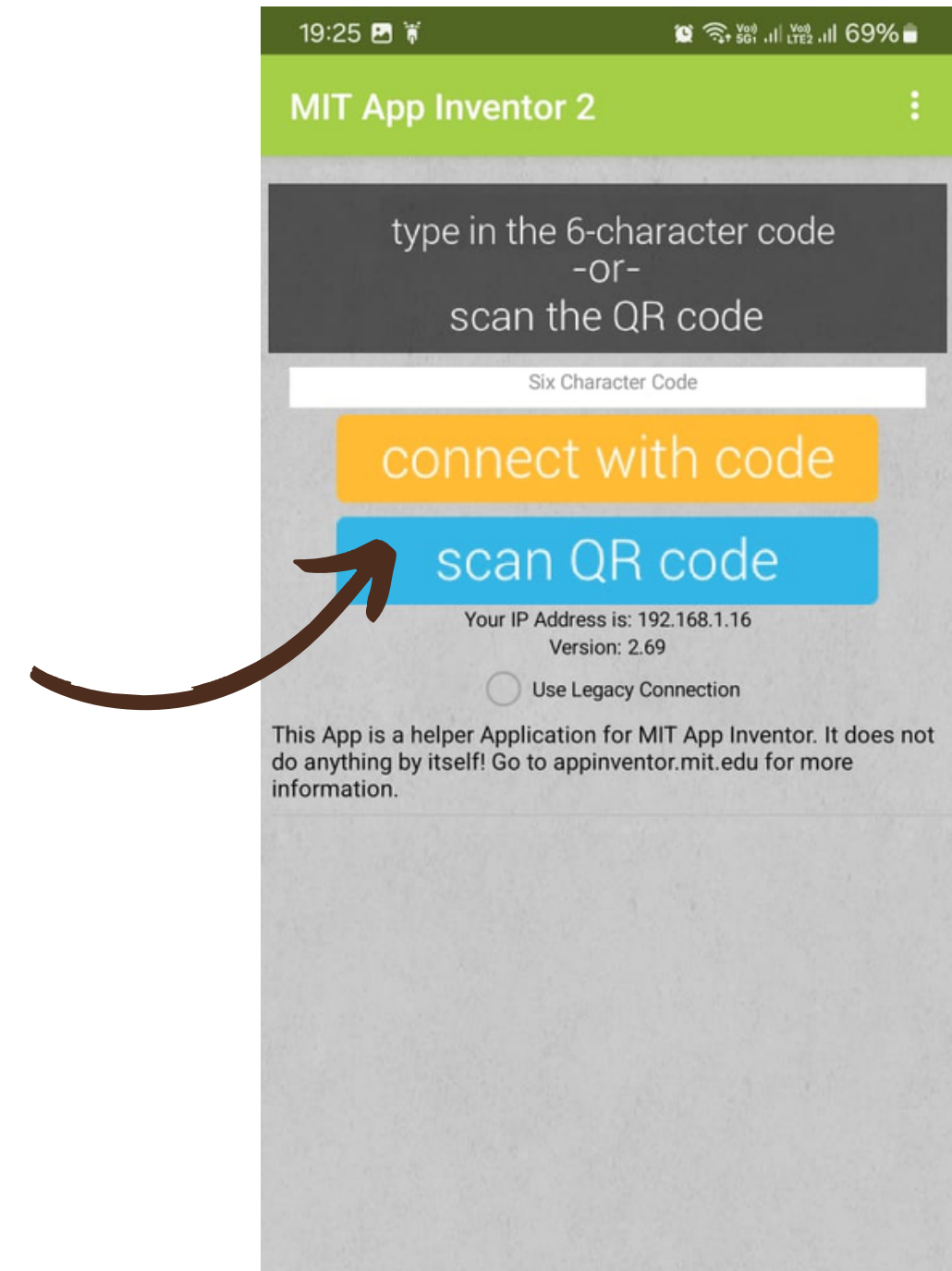
1. Download the **MIT AI2 Companion** app from **Play Store** or use the given link
2. Open the app



Step 4

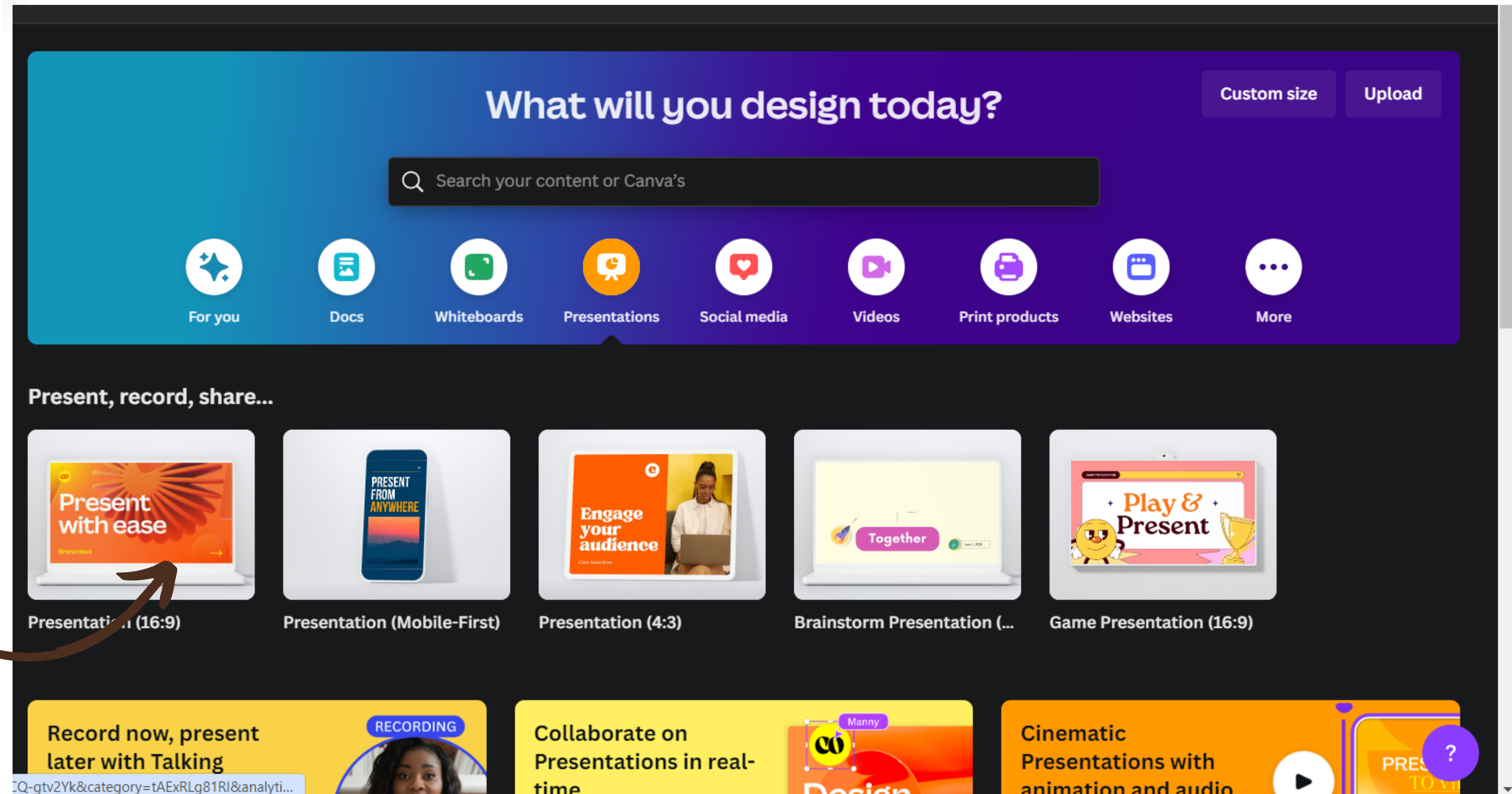
MIT APP Inventor Based Solution

Scan the code by clicking on **scan QR code** button on the app



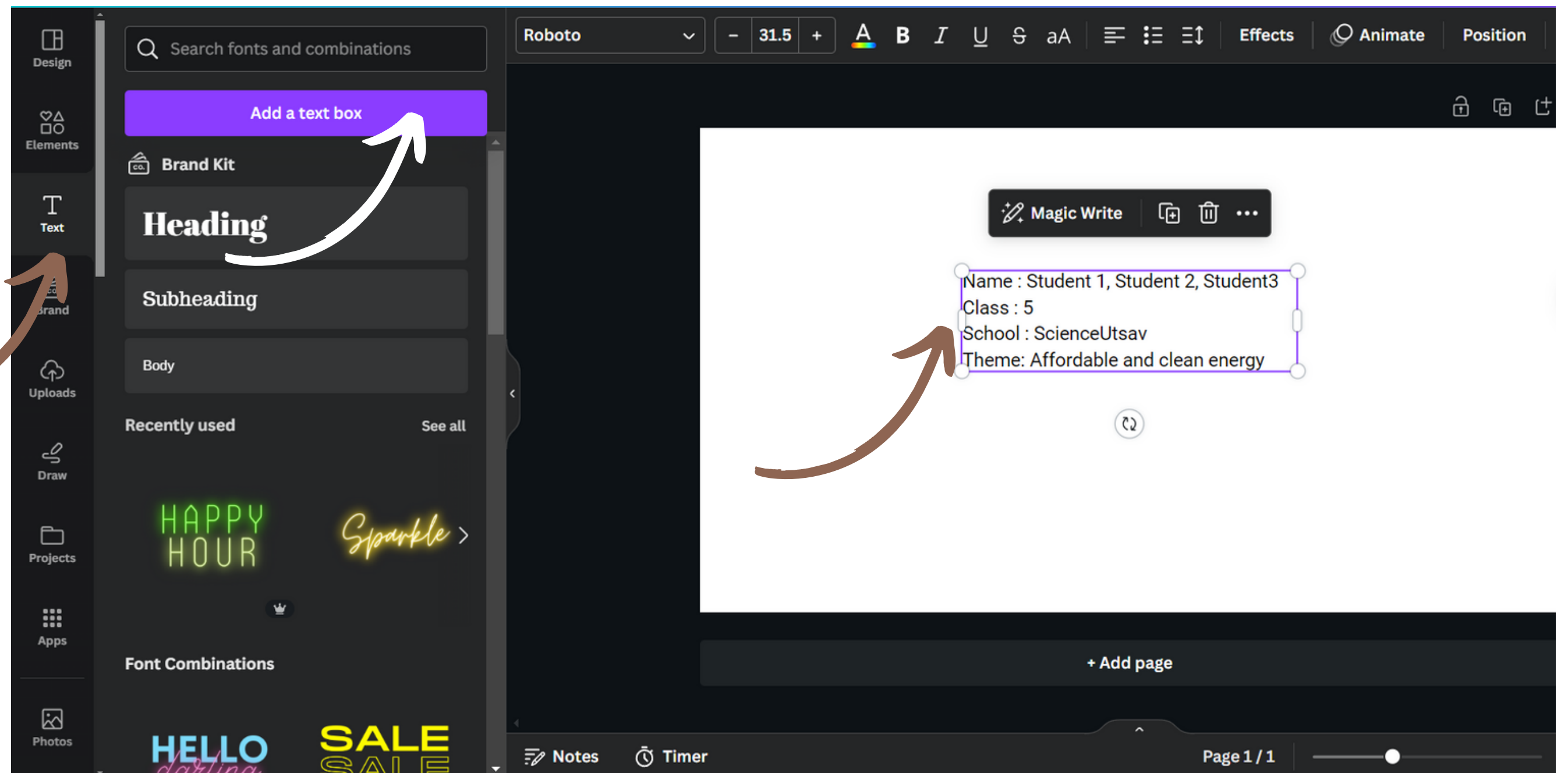
Step 5 Making PPT

1. Go to Canva
2. Click on Presentation
3. Scroll down to choose a template or
4. Click on Presentation 16:9



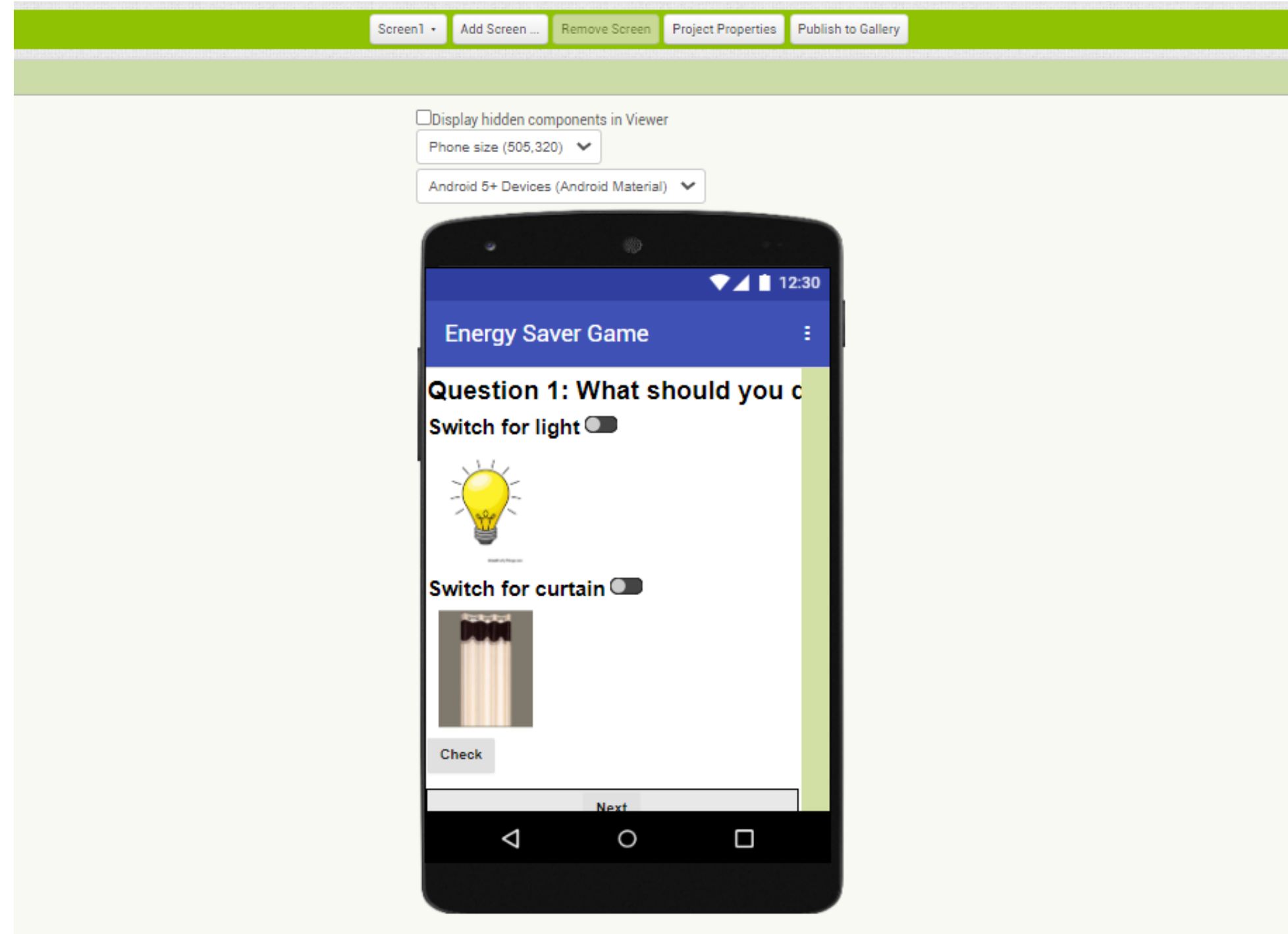
Step 5 Making PPT

1. Click on Text
2. Add a text box
3. Add the information as mentioned

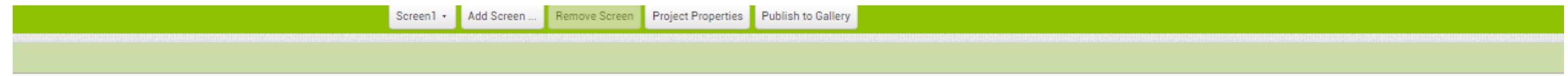


Step 5 Making PPT

Add the screenshot of the UI of the project to your PPT



Step 5 Making PPT



Add the screenshot of the code of the project to your PPT

```
when Screen1.Initialize
do set Switch1.On to true

when Switch1.Changed
do if Switch1.On
then set Image1.Picture to Bulbon.jpg
else set Image1.Picture to Bulboff.jpg

when Switch2.Changed
do if Switch2.On
then set Image2.Picture to curtainopen.png
else set Image2.Picture to curtainclosed.png

when Button2.Click
do if not Switch1.On and Switch2.On
then set Label2.Text to "Open curtain to save energy when it's bright ou..."
else set Label2.Text to "Try again"

when Button1.Click
do open another screen screenName Page2
```

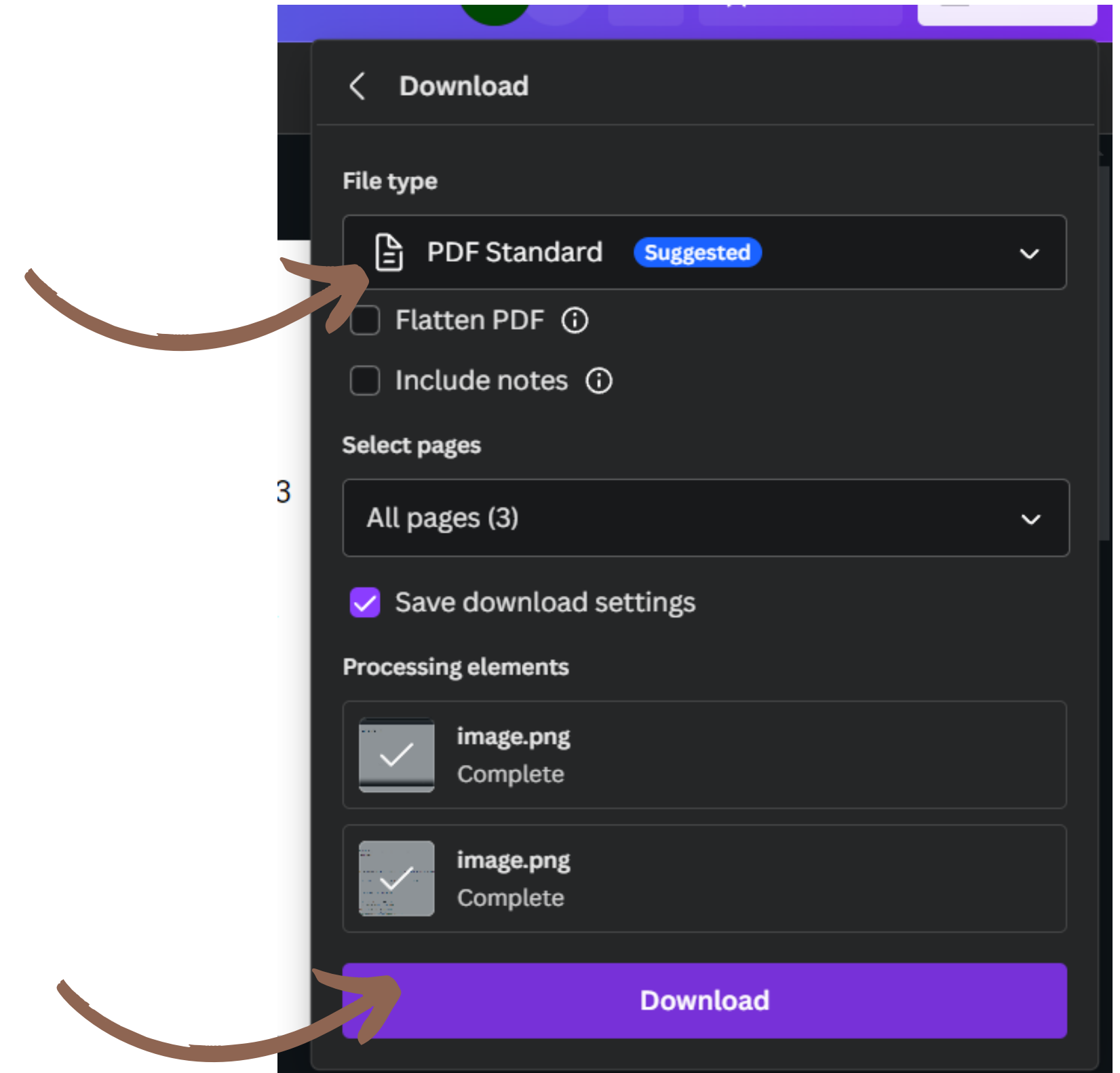

Step 5 Downloading PPT

1. Click on Share
2. Click on Download

The screenshot displays the Canva design editor interface. At the top, a blue header bar contains the text "Name : Student 1, Student 2, Student3 Class : 5" and several icons: a green circle with a white 'S', a plus sign, a bar chart, a "Present" button, and a "Share" button. The main workspace is a white canvas with a dark border. On the left, it says "Page 1 - Add page title". In the center, there is text: "Name: Student 1, Student 2, Student3", "Class: 5", "School: ScienceUtsav", and "Theme: Affordable and clean energy". At the bottom, it says "Page 2 - Add page title". A dark grey dropdown menu is open from the "Share" button. It contains the following options: "Share this design", "People with access Edit", a text input field "Add people, groups, or your team", a yellow circle with a white 'S' and a plus sign, "Collaboration link", a dropdown menu "Only you can access", a purple "Copy link" button, and four icons: "Present", "Website", "Microsoft PowerPoint", and "Public view link". Below these are three more options: "Download", "Share on social", and "Print with Canva". Two brown arrows point to the "Share" button in the top right and the "Download" option in the dropdown menu.

Step 5 | Downloading PPT

1. Choose **PDF Standard**
2. Click on **Download**



Step 6

How to Upload the PDF

Click on **Click here**

<https://stemfest.scienceutsav.com>

Hack-a-thon

Schedule: 4-Feb-2024
Grade 1 to 4: 10:00am – 12:00pm
Grade 5 to 9: 2:00pm – 4:00pm

The Coding platforms to use:
Grade 1 to 4: Canva, Scratch, Code.org, App Inventor, Krita, MS Paint
Grade 5 to 9: Canva, Scratch, Python, HTML, WIX

- The Hack-a-thon ignites creativity, problem-solving, and tech curiosity among young minds.
- Engaging in interactive activities and hands-on experiences, kids explore cutting-edge technologies and enhance coding skills.
- Participants have an opportunity to exhibit their creations and tackle real-world challenges, nurturing growth and development.
- Students will engage in enjoyable debugging activities during the event.
- Engage in fascinating conversations with speakers focusing on unconventional yet promising careers in IT.

[Register Now](#)

Click below to check format and submit project

[Click here](#)

STEM FEST
stemfest.scienceutsav.com

HACKATHON
4TH FEB, 2024

Preeti Singh
Instructional designer

Deepthi Shivaramu
Senior Engineering Manager, VMware.

Schedule

- **Grade 1 - 4 :** 10:00am - 12:00 pm
- **Grade 5-9 :** 2:00pm - 4:00 pm

Prizes

- 1st Prize: Rs 1000 + Medal + Certificate + Gift
- 2nd Prize: Medal + Certificate + Gift
- Certificates for participants

Benefits

- Early exposure to technology
- Competition with schools from all over India
- Opportunity to participate in hackathons at a young age

REGISTER NOW

<https://stemfest.scienceutsav.com>

schools@scienceutsav.com

9216367620

Step 7 How to Upload

Hackathon Theme for grade 1 to 4

Full Name Participant 1

Student Name

Full Name Participant 2

Full Name Participant 2

Full Name Participant 3

Full Name Participant 3

Name of School

ABC School

Phone

1234567890

Email ID

nab123@gmail.com

Class

3

Fill in your details

0%

Next



Step 7 How to Upload

Click on **Choose File** and then choose file

Hackathon Theme for grade 1 to 4

Theme 1 : Affordable and clean energy

Image, Doc file and PDF can be uploaded. **Always include screenshots of the output.**

Choose File No file chosen

Comments

Previous

50 %

Next

Choose the file and click on **Open**

Desktop

Downloads

Documents

Pictures

Music

Affordable and clean energy Student Na... 01-02-2024

Senior DPDT Switch Controlled Robot Car 01-02-2024

Junior DPDT Switch Controlled Robot Car 01-02-2024

Hackathon csvs 01-02-2024

Yesterday

Select a file to preview.

File name:

All Files

Open

Cancel

Step 7 | How to Upload

Click on **Copy Link**
in comment

HACKATHON THEME grade 5 to 5

Theme 1 : Industry, innovation and infrastructure

Image, Doc file and PDF can be uploaded. **Always include screenshots of the output.**

Choose File 2024 PDF H...ersion (1).pdf



<https://scratch.mit.edu/projects/796192624>

Previous

50 %

Next

Step 7 | How to Upload

Hackathon Theme for grade 1 to 4

Theme 2 : Sustainable cities and communities

Image, Doc file and PDF can be uploaded. **Always include screenshots of the output.**

Choose File No file chosen

Comments

Previous

Submit

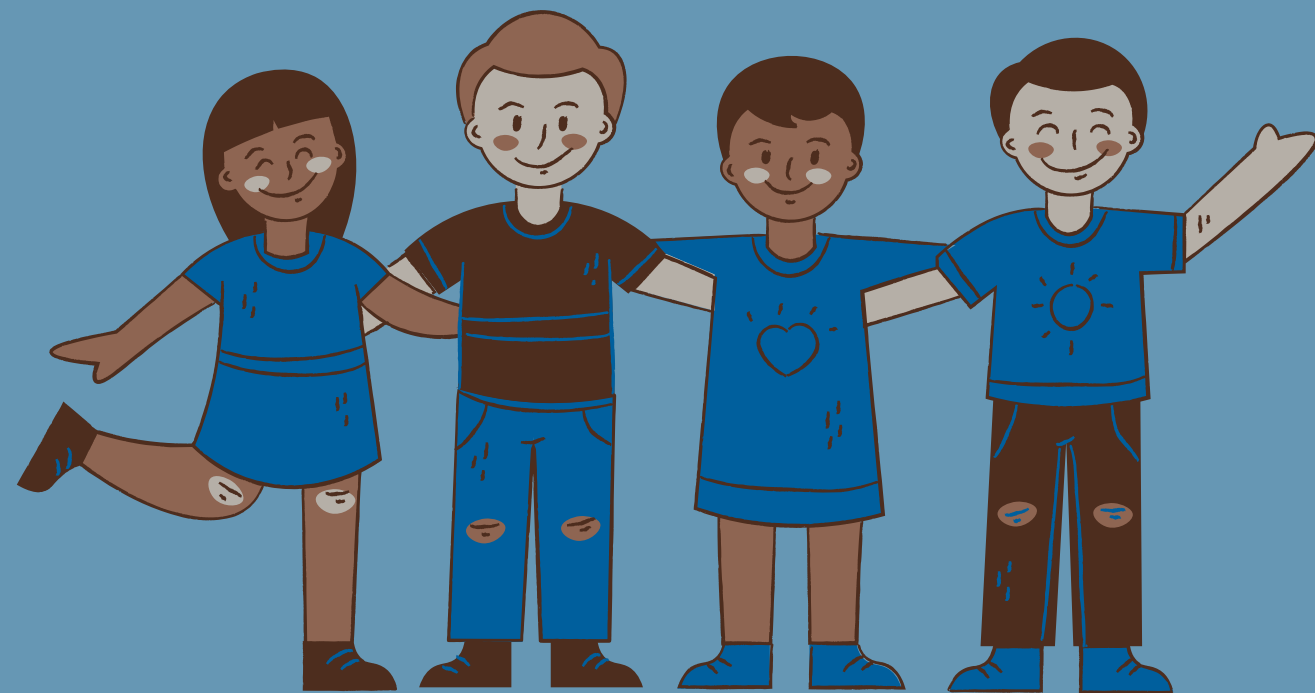


Click on **Next** and click on **Submit**



THANK YOU

Reach out to us for
inquiries or comments.



Phone Number

9216367620

Email Address

info@scienceutsav.com

technology.scienceutsav@gmail.com

Website

stemfest.scienceutsav.com

www.scienceutsav.com