

ANDROID APP DEVELOPMENT USING APP INVENTOR

Students will learn about what an application is & get a basic knowledge about creating an app.

**APP 1 - HELLO**

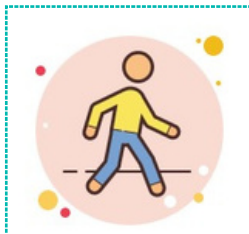
Introducing basic components - Label, Button, Textbox.
What is an event? What are Non -Visible Components?

Turn your text into speech.

**APP 2 - DIGITAL DOODLE**

How to create colourful buttons? What is an accelerometer sensor? Erase your drawing by shaking your mobile.

Doodling is a lot of fun! Develop your own doodle application.

**APP 3 - STEP COUNTER**

What is a pedometer sensor? How does it work? How does it calculate distance while walking?

Enjoy walking with your step counter.

**APP 4 - MONSTER POP**

What is a variable? How to introduce a character in a game? Adding sounds to make the game better.

Pop your monsters and gain points.

**APP 5 - CALCULATOR**

How to use condition? Is it possible to use multiple conditions?
What is a notifier?

Learn to develop calculator UI & make it work.



APP 6 - PHOTO EDITOR

Learn to access the camera component. To learn about the usage of slider component.

Snap ! Sketch ! Share !



APP 7 -CHASE GAME

Control your character using buttons. To learn briefly about the use of clock component.

Help minion to chase banana & smile with minion.



APP 8 -TRANSLATOR

What is the list? What is indexing and how it works? To learn about Yandex translate.

Create a handy translator.



APP 9 -PIRATESHIP

How to create multiple screen for an app? Control ship using fling method.

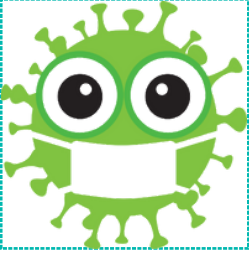
Learn to sail a ship in the game to collect coins.



APP 10 -MESSAGING

Learn to use PhoneNumberPicker components. View your text in listview. Make typing easy with speech recogniser.

Ping message from your own app.

**APP 11 - CORONA SHOOTER**

What is a database? How to use tinyDB component?

Learn to Store your Highscore.

Make fun of fighting with the corona .

**APP 12 - RGB PAINTER**

What is RGB? How does it work? Why RGB? How to make colour using RGB?

Paint with 16,777,216 different colours.

**APP 13 - BIRD ANIMATION**

How to change a costume of a sprite?. Make your bird flap by using the clock component.

Animate to make it more realistic.

**APP 14 - To-Do LIST**

Create a list and make changes by using delete and clear buttons. Store your list for later reference.

The most effective way to do it, is to do it.

**APP 15 - WHACK A MOLE**

How to position a sprite? What is the procedure? Learn to create lives and levels in a game .

Speed up hitting to make the game more interesting.

**APP 16 - QUIZ**

How create questions, options and answers as a list? Learn to code for previous and next buttons using conditions .

Create your own quiz show.

**APP 17 - BALL ANIMATION**

Make the ball move faster and slower by using the button. Make your ball glow with multi-colour.

Have fun with a colourful ball.

**APP 18 - PING PONG**

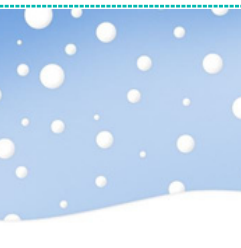
Learn more about angles. How to make a ball-to-point random direction?

The ball is in your court. Control the ball.

**APP 19 - MUSIC PLAYER**

Customise your music list. Learn to use the non-visible component player.

Make your favourite songs play in your own app.

**APP 20 - SNOWFALL**

Customize your snowball to have different sizes and move at different speeds. Shake your mobile and make it fall.

Let it snow with your app .



APP 21 - FRUIT NINJA

To get an idea about local variables. Learn to make your fruits move in random directions.

Fling it to gain points.



APP 22 - CHAT APP

What is cloudDB? How can chat applications work? What is the mean of append? What is \n in a string?

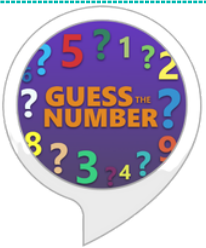
Better to make a chat app than a chat.



APP 23 - FIREWORKS

Work with Time Interval property. Make a rocket blast when it reaches a certain position.

Create a virtual fireworks experience.



APP 24- GUESS THE NUMBER

What is the spinner component? How to set a difficulty level of a game? What is the start value?

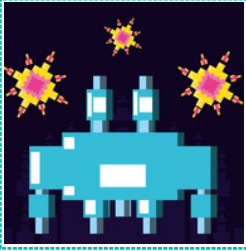
Want to improve your math skills? Create apps.



APP 25- COLOUR SENSE TEST

What is table arrangement? Why is it needed ? How to create an odd colour button?

Test your colour sensitivity.

**APP 26 - ASTEROID SHOOTER**

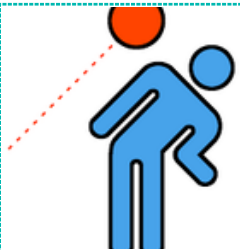
What are nested conditions? Learn about 'mod' blocks to increase the difficulty level of the game.

Aim ! Shoot ! Score !

**APP 27 - SLIDESHOW**

What is the length of a list? How to use an ImagePicker component and its uses.

Create a memory reel with your own app!

**APP 28 - ESCAPE THE STONES**

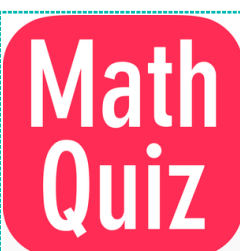
Restart your game using the notifier dialog box .Control the player using left and right buttons.

Better to avoid, to score better !

**APP 29 - BALL MAZE**

Learn to setup a maze and to know about control a sprite using an accelerometer.

Control your ball without touching the wall !

**APP 30 - MATH QUIZ**

Learn to set a level for your game and a timer for every question.

Train your brain for coding and calculation.

**APP 31 - COLOURING**

What is RGBA color format?

What is difference between RGB and RGBA?

Time to colour digitally !

**APP 32 - SLIDING PUZZLE**

How do you shuffle elements in a list?

What is the importance of and or operator in a logical game creation?

Small pieces that make the big picture!

**APP 33 - SCRATCH CARD**

How do scratch cards work?

How to create shapes using pointlist?

Create digital surprise using scratch card!

**APP 34 - PAC-MAN**

How to specify range of values to control the direction of movement of a sprite?

Create a modern Pac-Man game !

**APP 35 - TOUR GUIDE**

Learn the use of map and marker components. How to position a marker on the exact location?

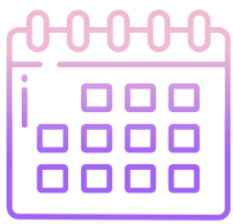
It's a turn-key destination guide!



APP 36 - SUPER MARIO

What is an arcade game ? How to make your sprite jump by simple touch?

Let's make a classic mario game !



APP 37- TIMETABLE

What is a dictionary ? What are keys and values?

How to get input from the user using notifier component?

Creating a timetable is an easy job now!



APP 38 - PIGGY BANK

What is a datepicker component? How to scroll all the columns of listview evenly?

Best way to tracking your money!



APP 39- BLOOD DONOR

How to create digital form to get details from donor?

How to store the details of donors, respectively?

Create virtual blood donation platform!



APP 40 - BOOK REVIEW

How to create admin account for your app ?

How to add ratings for books?

Reviewing! Rating! Reading!