

## ASSIGNMENT-9

TITLE: IOT DEMONSTRATION

PROBLEM STATEMENT: WAP USING ARDUINO / RASPBERRY PI KIT FOR DEMONSTRATION OF IOT APPLICATION.

## THEORY:

- RASPBERRY PI :
- It is a microprocessor
- It is a series of small single board computers developed in the UK by Raspberry Pi foundation that promotes teaching of basic computer science

## ARDUINO

## RASPBERRY PI

- |                                       |                                    |
|---------------------------------------|------------------------------------|
| i. Control unit is from Atmega family | i. Control unit is from ARM family |
| ii. Arduino is a microcontroller.     | ii. R.Pi is a microprocessor.      |
| iii. CPU : 8 bit arch.                | iii. CPU : 64 bit arch             |
| iv. Uses very less RAM, 2KB           | iv. Requires more RAM, 1GB         |
| v. Cheaper in cost                    | v. R.Pi is expensive               |
| vi. 200 mW of power                   | vi. 700 mW of power.               |

- CONCLUSION

In this assignment, we demonstrated an IoT application using Arduino / Raspberry Pi.