**ABSTRACT**

**Mankind has always struggled to find alternatives for himself to work in hostile zones and carry out his orders. The popular concept for this is robot which is machine that performs specific task according to orders given to it.**

**As next industrial revolution is upon us ,as industry 4.0 brings a new wave of connected manufacrurers and smart factories. It is fourth industrial revolution following the footsteps of previous revolutions , computers and internet (industry 3.0),mass production and electricity(industry 2.0)and mechanization and water/steam power (industry1.0)**

**Industry 4.0 involves a combination of automation and the IOT ,which collectively create smart factory.**

**The modern industry is moving from automation towards “Robotization” to maintain product quality and increase productivity. Today’s robots do not look like human being but research is going on to provide more and more anthropomorohic structure and human capabilities in these.**

**Here how a pick and place robot can be designed for industries where store rooms are to be managed or loading and packing is to be done. Various problems and obstructions are taken into consideration and analysed taken into consideration while designing the robot.**