**NAME –ANTIKA DAS (NU57PS)**

**VENDING MACHINE**

**Specifications:**

The aim is to create a vending machine where the buyer can choose a product from two categories -- COLD DRINKS and HOT DRINKS ,then insert coins like 10Huf,20Huf,50Huf,100Huf etc.(But not 5Huf) to buy the product. After the buyer selects a valid product it will show the price of the product and ask the buyer to insert the money (coins) and then return the extra coins to the buyer after the purchase.

**Program**

At first the machine will wait for the buyer to select a product up to a specified time --say 20 seconds, if the buyer does not select a product within the specified time it will again ask (remind) the buyer to select a product. After the buyer selects a product from the product list, it will verify if the entered input is valid or not, if the entered input is invalid it will say “the product is not available please select a valid product”, otherwise it will redirect the buyer to insert the price and will check if the inserted cash is less than the selected product price, if the buyer insert smaller coins than the selected product price it will display the remaining price to be inserted , once the sufficient insertion of the coins are fulfilled the buyer can collect the product. After the purchase is complete the extra coins will be returned to the buyer.

**Example**:

Selected product FANTA: 270 HUF , inserted cash by the buyer 2 200HUF(=400HUF).

Return to the buyer 1 20HUF coin, 1 10HUF coin, and 1 100 HUF coin.