DON BOSCO INSTITUTE OF TECHNOLOGY,KURLA,MUMBAI 400070

SUBJECT :- SKILL LAB : C++ AND JAVA PROGAMMING 2021

MINI PROJECT FOR SEMESTER III



TOPIC : SUPERMARKET BILLING

TEAM MEMBERS :

|  |  |  |
| --- | --- | --- |
| SR.NO | NAME | ROLL.NO |
| 1. | ADITYA SAJU | 03 |
| 2. | JIGNESH BANDI | 12 |
| 3. | KSHITIJ BARE | 14 |

CONTENT

|  |  |
| --- | --- |
| SR.NO | TOPICS |
| 1. | INTRO |
| 2. | CODE |
| 3. | OUTPUT |
| 4. | APPLICATIONS |

INTRODUCTION :

OUR PROJECT NAME IS SUPERMARKET BILLING. SO, BASICALLY SUPERMARKET BILLING SYSTEM IS USED TO REDUCE THE REQUIREMENT OF HUMAN EFFORTS IN CALCULATING BILL ESPECIALLY FOR HUGE PRODUCTS.

IN BIG SHOPS IT IS NOT EASY TO KEEP TRACK OF PRODUCTS PURCHASED AND ADD THE VALUE TOO. IT ALSO SAVES TIME OF CUSTOMERS AND EMPLOYEES. THE BILLING DATABASE IS A VAST COLLECTION OF PRODUCT NAME, PRICE AND OTHER PRODUCT SPECIFIC DATA. A PRODUCT WHEN BILLED IS SEARCHED FROM THE DATABASE AND ITS PRICE IS ADDED TO THE BILL BASED UPON THE PRODUCT QUANTITY.THIS HELPS TO KEEP TRACK OF THE PRODUCTS AS WELL AS DISPLAY OTHER PRODUCTS AVALIABLE TO CUSTOMER. THIS HELPS FOR EASY HANDLING OF THE MARKET.

EMAIL BILL NOTIFICATION: THE CUSTOMER IS EVEN NOTIFIED OF THE BILL AMOUNT VIA INSTANTLY.

CODE :

IMPORT JAVA.UTIL.ARRAYLIST;

IMPORT JAVA.UTIL.LIST;

IMPORT JAVA.UTIL.SCANNER;

CLASS PRODUCT {

PRIVATE STRING PNAME;

PRIVATE INT QTY;

PRIVATE DOUBLE PRICE;

PRIVATE DOUBLE TOTALPRICE;

PRODUCT(STRING PNAME, INT QTY,

DOUBLE PRICE, DOUBLE TOTALPRICE) {

THIS.PNAME = PNAME;

THIS.QTY = QTY;

THIS.PRICE = PRICE;

THIS.TOTALPRICE = TOTALPRICE;

}

PUBLIC STRING GETPNAME() {

RETURN PNAME;

}

PUBLIC INT GETQTY() {

RETURN QTY;

}

PUBLIC DOUBLE GETPRICE() {

RETURN PRICE;

}

PUBLIC DOUBLE GETTOTALPRICE() {

RETURN TOTALPRICE;

}

PUBLIC STATIC VOID DISPLAYFORMAT() {

SYSTEM.OUT.PRINT(

"\NNAME QUANTITY PRICE TOTAL PRICE\N");

}

PUBLIC VOID DISPLAY() {

SYSTEM.OUT.FORMAT("%-9S %8D %10.2F %10.2F\N",

PNAME, QTY, PRICE, TOTALPRICE);

}

}

PUBLIC CLASS SUPERMARKETBILLING {

PUBLIC STATIC VOID MAIN(STRING[] ARGS) {

SYSTEM.OUT.PRINTLN("WELCOME TO APNA BAZAAR");

SYSTEM.OUT.PRINTLN("THE PRODUCTS AVALIABLE TODAY ARE : PRODUCT QUANTITY");

SYSTEM.OUT.PRINTLN(" TOOTHPASTE 3");

SYSTEM.OUT.PRINTLN(" SOAP 5");

SYSTEM.OUT.PRINTLN(" TOOTHBRUSH 3");

SYSTEM.OUT.PRINTLN(" SHAMPOO 2");

SYSTEM.OUT.PRINTLN(" BISCUITS 6");

SYSTEM.OUT.PRINTLN(" TEACUPS 3");

SYSTEM.OUT.PRINTLN(" SCRUBBER 7");

SYSTEM.OUT.PRINTLN(" PENS 8");

SYSTEM.OUT.PRINTLN(" HERBAL TEA 3");

SYSTEM.OUT.PRINTLN(" MILK POWDER 4");

SYSTEM.OUT.PRINTLN(" CHOCOLATES 8");

SYSTEM.OUT.PRINTLN(" COFFEE POWDER 5");

SYSTEM.OUT.PRINTLN(" WATERBOTTLE 7");

SYSTEM.OUT.PRINTLN(" CHARGER 4");

SYSTEM.OUT.PRINTLN(" SPOONS 8");

SYSTEM.OUT.PRINTLN(" MATTRESS 6");

SYSTEM.OUT.PRINTLN(" COFFEE MACHINE 3");

STRING PRODUCTNAME = NULL;

INT QUANTITY = 0;

DOUBLE PRICE = 0.0;

DOUBLE TOTALPRICE = 0.0;

DOUBLE OVERALLPRICE = 0.0;

CHAR CHOICE = '\0';

SCANNER SCAN = NEW SCANNER(SYSTEM.IN);

LIST<PRODUCT> PRODUCT = NEW ARRAYLIST<PRODUCT>();

DO {

SYSTEM.OUT.PRINTLN("ENTER PRODUCT DETAILS,");

SYSTEM.OUT.PRINT("NAME: ");

PRODUCTNAME = SCAN.NEXTLINE();

SYSTEM.OUT.PRINT("QUANTITY: ");

QUANTITY = SCAN.NEXTINT();

SYSTEM.OUT.PRINT("PRICE (PER ITEM): ");

PRICE = SCAN.NEXTDOUBLE();

TOTALPRICE = PRICE \* QUANTITY;

OVERALLPRICE += TOTALPRICE;

PRODUCT.ADD( NEW PRODUCT(

PRODUCTNAME, QUANTITY, PRICE, TOTALPRICE) );

SYSTEM.OUT.PRINT("WANT TO ADD MORE ITEM? (Y OR N): ");

CHOICE = SCAN.NEXT().CHARAT(0);

SCAN.NEXTLINE();

} WHILE (CHOICE == 'Y' || CHOICE == 'Y');

PRODUCT.DISPLAYFORMAT();

FOR (PRODUCT P : PRODUCT) {

P.DISPLAY();

}

SYSTEM.OUT.PRINTLN("\NTOTAL PRICE = " + OVERALLPRICE);

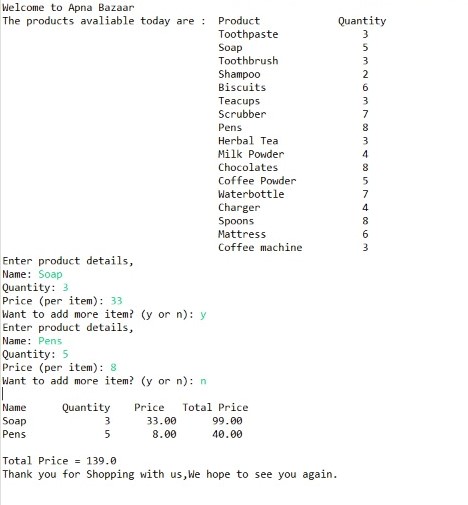
SYSTEM.OUT.PRINTLN("THANK YOU FOR SHOPPING WITH US,WE HOPE TO SEE YOU AGAIN.");

SCAN.CLOSE();

}

}

OUPUT :





ADVANTAGES:

THE SYSTEM REDUCES MUCH OF HUMAN EFFORTS IN CALCULATIG BILL ESPECIALLY FOR HUGE PRODUCTS

SAVES MONEY AND RESOURCES OF ORGANIZATION AND EXCLUDES USE OF PAPWER OR SHEETS IN MAKING THE BILL

IT CAN DETECT THE PRODUCT INFORMATION AND THE PRICE OF THE PRODUCT

SAVES TIME

IT PROVIDES ACCURACY AND IS FAULTLESS IN BILLING CALCULATIONS

HELPS TO SIMPLY PRODUCTS AVALIABLE AT STORE ALONG WITH THE QUANTITY

IT IS FLEXIBLE AND USER FRIENDLY

DISADVANTAGE :

REQUIRES A LARGE DATABASE