Programming Concept

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Assignment 1

Due date: 23rd August 2021

Variables definition

numFiveThousend = number of five thousend paper money we need to give

numTwoThousend = number of two thousend paper money we need to give

numThousend = number of thousend paper money we need to give

numFiveHundred = number of five hundred paper money we need to give

numHundred = number of hundred paper money we need to give

numFifty = number of fifty paper money we need to give

numtwenty = number of twenty paper money we need to give

numTen = number of ten paper money we need to give

numFive = number of five coins we need to give

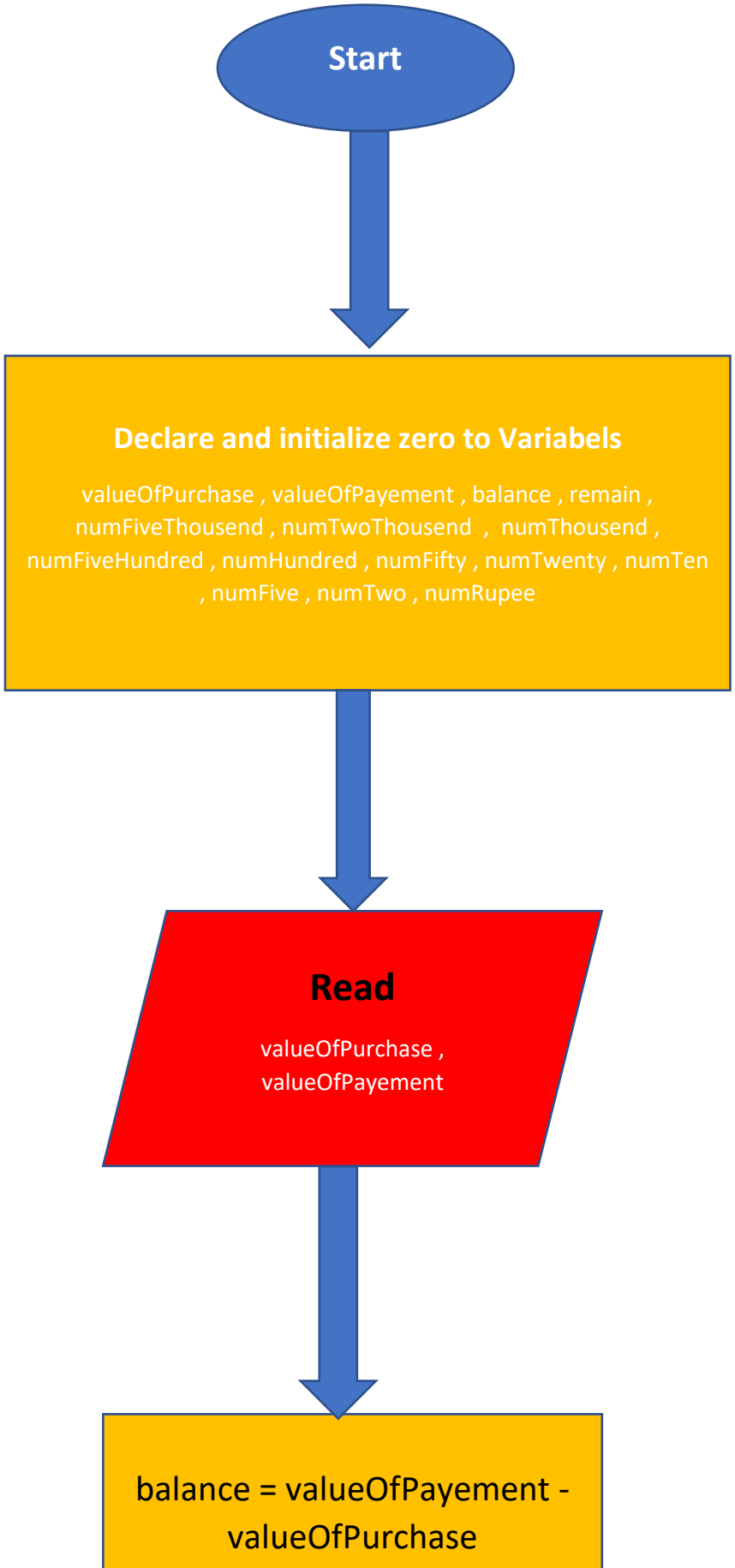
numTwo = number of two coins we need to give

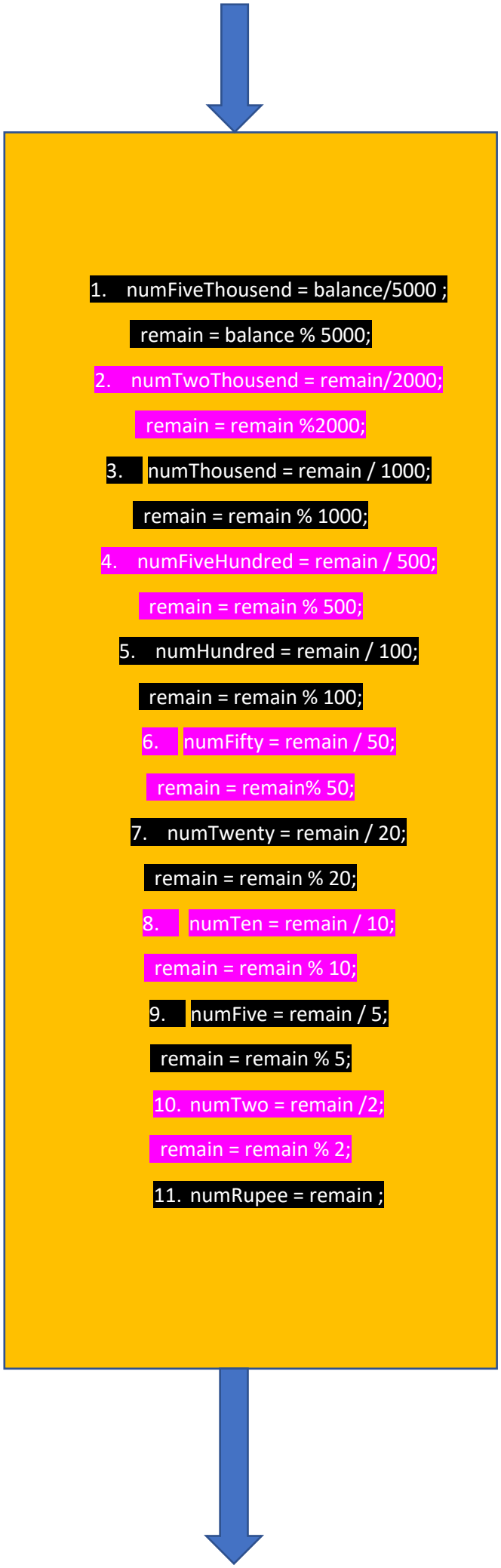
numRupee = number of ruppees we need to give

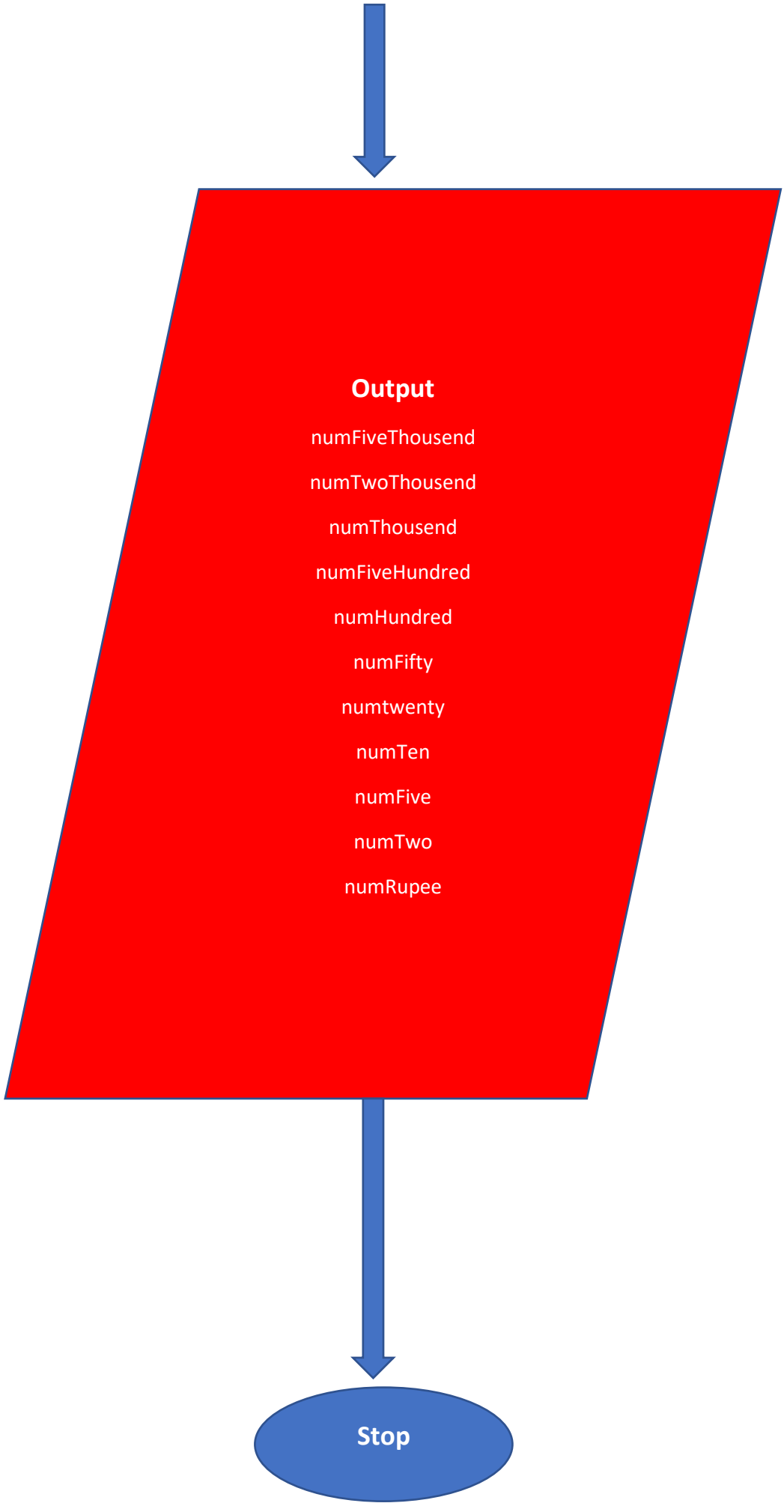
balance = sum of total money we need to give back to customer

valueOfPayement = value made by customer

valueOfPurchase = value of purchase good.


Start
Declare and initialize zero to Variabels
valueOfPurchase , valueOfPayement , balance , remain , numFiveThousend , numTwoThousend , numThousend , numFiveHundred , numHundred , numFifty , numTwenty , numTen , numFive , numTwo , numRupee
Read
valueOfPurchase , valueOfPayement
balance = valueOfPayement - valueOfPurchase


1. numFiveThousend = balance/5000 ;
remain = balance % 5000;
2. numTwoThousend = remain/2000;
remain = remain %2000;
3. numThousend = remain / 1000;
remain = remain % 1000;
4. numFiveHundred = remain / 500;
remain = remain % 500;
5. numHundred = remain / 100;
remain = remain % 100;
6. numFifty = remain / 50;
remain = remain% 50;
7. numTwenty = remain / 20;
remain = remain % 20;
8. numTen = remain / 10;
remain = remain % 10;
9. numFive = remain / 5;
remain = remain % 5;
10. numTwo = remain /2;
remain = remain % 2;
11. numRupee = remain ;


Output
numFiveThousend
numTwoThousend
numThousend
numFiveHundred
numHundred
numFifty
numtwenty
numTen
numFive
numTwo
numRupee
Stop

This is the code (Sir , I also uploaded it as another .cpp file to cal)

```
#include <iostream>


int main()
{
  int valueOfPurchase = 0; //price of the purchase..
  int valueOfPayement = 0; //payement made by the customer..
  int balance = 0; //balance that owner need to give to the customer..
  int remain = 0; // remain value after divide


  int numFiveThousend = 0 ;
  int numTwoThousend = 0;
  int numThousend;
  int numFiveHundred;
  int numHundred;                 //variable declaration asign 0 as initial value to the number of coins and papers...
  int numFifty;
  int numTwenty;
  int numTen;    //if you dont assign a value it automatically asssign zero
  int numFive;
  int numTwo;
  int numRupee;
```

```
// Outputs massages and getting user inputs..
std::cout << "What is the value of purchase ?" <<std::endl;
std::cin >> valueOfPurchase;
std::cout << "What is the Payement made by customer ?" <<std::endl;
std::cin >> valueOfPayement;
balance = valueOfPayement - valueOfPurchase;
std::cout<<"\n";
std::cout << "***   balance is "<<balance<<"   ***"<<std::endl;
```

```
//Calculation process..   (we divide balance from number of values and also we get the remaining(because this is a integer division) and asign those values to variables that we previously declared.)
numFiveThousend = balance/5000 ;
remain = balance % 5000;

numTwoThousend = remain/2000;
remain = remain %2000;

numThousend = remain / 1000;
remain = remain % 1000;
```

```
numFiveHundred = remain / 500;
remain = remain % 500;

numHundred = remain / 100;
remain = remain % 100;

numFifty = remain / 50;
remain = remain% 50;

numTwenty = remain / 20;
remain = remain % 20;

numTen = remain / 10;
remain = remain % 10;

numFive = remain / 5;
remain = remain % 5;

numTwo = remain /2;
remain = remain % 2;

numRupee = remain ;
```

```
 // Print Statements
   std::cout<<"\n\n";
   std::cout << "You need to give " <<numFiveThousend<<" five thousend rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numTwoThousend<<" two thousend rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numThousend<<" thousend rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numFiveHundred<<" five hundred rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numHundred<<" hundred rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numFifty<<" fifty rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numTwenty<<" twenty rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numTen<<" ten rupee paper/s."<<std::endl;
   std::cout << "You need to give " <<numFive<<" five ruppee coin/s"<<std::endl;
   std::cout << "You need to give " <<numTwo<<" two ruppee coin/s"<<std::endl;
   std::cout << "You need to give " <<numRupee<<" one ruppee coin/s"<<std::endl;
 return 0;
```

```
}
```