***PF Lab 02***

Task 1:

Pseudocode:

01 START

02 DISPLAY “What would you like to eat?”

03 READ customer\_order

04 DISPLAY “Any special requests or add ons?”

05 READ special\_request

06 DECLARE total\_cost

07 DISPLAY “Here is your total:”, total\_cost

08 INPUT customer\_payment

09 IF customer\_payment == total\_cost, THEN

10 DISPLAY “Your order has been placed”

11 ELSE IF customer\_payment > total\_cost, THEN

12 DECLARE change

13 CALC change = customer\_payment – cost

14 DISPLAY “Your change comes to:”, change

15 ELSE DISPLAY “your payment is insufficient”

16 END IF

17 DISPLAY “Enjoy your meal!”

18 END

Algorithm:

STEP 1: Ask the customer what they would like to eat

STEP 2: Ask the customer for any special requests

STEP 3: Display total cost to the customer

STEP 4: Take customer’s payment

STEP 5: Set change to (customer\_payment – total\_cost)

STEP 6: Give the change back to customer

STEP 7: Display “Enjoy your meal!”

TASK 02:

seudocode:

01 START

02 PIN = 8368

03 Bank\_balance = 100,000

04 DISPLAY “Enter your card”

05 DISPLAY “Enter your password:”

06 INPUT password

07 IF password != PIN THEN

08 DISPLAY “Your password is incorrect, try again”

09 ELSE IF password == PIN THEN

10 DISPLAY “Enter withdrawal amount:”

11 INPUT withdraw

12 INPUT CALC remaining \_balance = Bank\_balance - withdraw

13 IF withdraw <= Bank\_balance THEN

14 DISPLAY “Here is your withdrawn cash amount:”, withdraw

15 ELSE DISPLAY “You bank balance is insufficient”

16 DISPLAY “Your remaining balance comes to:”, remaining\_balance

17 END

Algorithm:

STEP 1: Set PIN to 8368

STEP 2: Set bank balance to 100,000

STEP 3: Ask user for password

STEP 4: If password matches PIN, then ask for withdrawal amount

STEP 5: Display cash withdrawn

STEP 6: Display remaining bank balance

Task 03:

Pseudocode:

01 START

02 Display “Enter 3 random numbers:”

03 INPUT num1, num2, num3

04 greatest = num1

05 IF num2 > greatest THEN

06 greatest = num2

07 END IF

08 IF num3 > greatest THEN

09 greatest = num3

10 END IF

11 DISPLAY “The greatest number is”, greatest

12 END

Algorithm:

STEP 1: Ask the user for three random numbers

STEP 2: Set greatest to num1

STEP 3: If num2 is greater than greatest, then set greatest to num2

STEP 4: If num3 is greater than greatest, then set greatest to num3

STEP 5: Display the value assigned to greatest

TASK 04:

Pseudocode:

01 START

02 DISPLAY “Enter a number 1 through 12:”

03 INPUT Num

04 IF Num == 1 THEN

05 DISPLAY “January”

06 ELSEIF Num == 2 THEN

07 DISPLAY “February”

08 ELSEIF Num == 3 THEN

09 DISPLAY “March”

10 ELSEIF Num == 4 THEN

11 DISPLAY “April”

12 ELSEIF Num == 5 THEN

13 DISPLAY “May”

14 ELSEIF Num == 6 THEN

15 DISPLAY “June”

16 ELSEIF Num == 7 THEN

17 DISPLAY “July”

18 ELSEIF Num == 8 THEN

19 DISPLAY “August”

20 ELSEIF Num == 9 THEN

21 DISPLAY “September”

22 ELSEIF Num == 10 THEN

23 DISPLAY “October”

24 ELSEIF Num == 11 THEN

25 DISPLAY “November”

26 ELSEIF Num == 12 THEN

27 DISPLAY “December”

28 ELSE DISPLAY “The number you entered is not valid”

29 END

Algorithm:

STEP 01: Get input number from the user

STEP 02: Check if number is within the range 1 to 12

STEP 03: Display the respective month associated with each number

STEP 04: Else display that the user has inputted an invalid number

TASK 05:

Pseudocode:

01 START

02 READ Num1, Num2, operator

03 IF operator == “+” THEN

04 Total = Num1 + Num2

05 ELSEIF operator == “–” THEN

06 Total = Num1 – Num2

07 ELSE DISPLAY “The operator entered is invalid”

08 DISPLAY Total

09 END

TASK 07:

Algorithm:

STEP 01: Get input Num1, Num2 and operator from user

STEP 02: If operator is “+” then set Total to Num1 + Num2

STEP 03: If operator is “-” then set Total to Num1 – Num2

STEP 04: If operator is “\*” then set Total to Num1 \* Num2

STEP 05: If operator is “/” then set Total to Num1 / Num2

STEP 06: If operator is “%” then set Total to (Num1 / Num2) \* 100

STEP 07: Else display “The operator you entered is invalid”

STEP 08: Display Total