**Tutorial 4: Selection**

1. Flowchart:

prompt user for num1 and get num1

prompt user for num2 and get num2

prompt user for code and get code

code > 0 and code < 5

NO

code == 1

num1 + num2

Yes=

code == 2

num1 – num2

Yes

code == 3

NO

NO

num1 \* num2

code == 4

NO

num2 != 0

Yes

Yes

num1 / num2

Yes

Display “Division by zero is not allowed”

NO

NO

Pseudocode:

Start

Prompt user for num1 and get num1

Prompt user for num2 and get num2

Prompt user for code and get code

if (code > 0 and code < 5){

If (code == 1){

num1 + num2

}

elif (code ==2){

num1 – num2

}

elif (code ==3){

num1 \* num2

}

elif (code == 4){

if ( num2 != 0){

num1 / num2

}

else{

display “Division by zero is not allowed”

}

}

}

Stop

**OR**

Start

prompt user for num1

prompt user for num2

prompt user for code

switch(code){

code 1:

num1 + num2

code 2:

num1 – num2

code 3:

num1 \* num2

code 4:

if (num2 != 0){

num1 / num2

}

else{

display “Division by zero is not allowed”

}

default:

display “Enter a code between 1 and 4”

}

Stop

5.

Flowchart:

get itemName

get costPrice

prompt user for itemName

prompt user for costPrice

prompt user for profit

get profit

taxAmount = costPrice \* 0.15

betaPrice = costPrice + taxAmount

if itemName != “bread” and itemName != “mealie meal”

sellingPrice = betaPrice + profit

Yes

sellingPrice = costPrice + profit

No

display sellingPrice

Sequential:

Start

prompt user for itemName

prompt user for costPrice

prompt user for profit

get itemName

get costPrice

get profit

if (itemName != “bread” or itemName != “mealie meal”){

taxAmount = costPrice \* 0.15

betaPrice = costPrice + taxAmount

sellingPrice = betaPrice + profit

}

else{

sellingPrice = costPrice + profit

}

display sellingPrice

Stop

Selection:

Start

prompt user for itemName

prompt user for costPrice

prompt user for profit

get itemName

get costPrice

get profit

switch(

Stop