Days till the date within the year Sample Input - Output:

```
TODAY IS DECEMBER 31 11:59 pm

Enter the month: [1] January - [2] February - [3] March- [4] April - [5] May - [6] Jun
- [7] July - [8] August - [9] September - [10] October - [11] November - [12]December

1
Enter the day:
1
The number of days in this year till date = 1

YOU WANT MORE? [Y] Yes or [N] No:
```

```
Source Code:
                                                   post ("Please Enter A Number for [1 to
unit days permonth[12] =
                                                   31]
\{31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31\};
                                                   n'');
unit x:
                                                   capture (#day);
PrimaryMission() {
                                                   otherorder (month = =4) {
unit day, month, total, var, choice;
                                                   post("Enter the day: \n");
go {
                                                   capture (#day);
commence;
                                                   phase (day \le 0 \mid day > 30) {
post("\n\t\t TODAY IS DECEMBER 31
                                                   post ("Please Enter A Number for [1 to
11:59 pm \n");
                                                   30]\n'');
                                                   capture (#day);
post("\nEnter the month: [1] January -
[2] February - [3] March- [4] April -
[5] May - [6] Jun n - [7] July - [8]
                                                   otherorder (month = =9) {
August - [9] September - [10] October -
                                                   post("Enter the day: \n");
[11] November - [12] December \n");
                                                   capture (#day);
capture (#month);
                                                   phase (day \le 0 \mid day \ge 30)
phase(month<0 | month>12) {
                                                   post ("Please Enter A Number for [1 to
post("Please Enter A Number from [1 to
                                                   30] \ n'');
12]\n'');
                                                   capture (#day);
capture (#month);
inorder(month = =2) {
                                                   otherorder (month = = 11) {
post("Enter the day: \n");
                                                   post("Enter the day: \n");
capture (#day);
                                                   capture (#day);
phase (day \le 0 \mid day \ge 28)
                                                   phase (day \le 0 \mid day \ge 30)
                                                   post ("Please Enter A Number for [1 to
                                                   30 \rceil \ \ \ ");
                                                   capture (#day);
```

```
order {
post("Enter the day: \n");
capture (#day);
phase (day \le 0 \mid | day > 32) {
post ("Please Enter A Number for [1 to
31]\n'');
capture (#day);
total = day - days permonth[x];
var= month;
inquire(x=0; x < var; x++) {
total = total + days permonth[x];
post("The number of days in this year
till date = " +total+ "\n");
go {
company ch;
post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
or [N] No: ");
capture (#ch);
inorder((ch = = "Y") || (ch = = "y")) {
choice = 1;
day=0;
month=0;
var=0;
X=0;
total=0;
                                                Matrix Diagonal SUM
                                                Sample Input - Output:
otherorder((ch = = "N") | | (ch = =
"n")) {
choice = 0;
order {
post("\n\t\tError Input!");
choice = 3;
} phase(choice = = 3);
} phase(choice != 0);
post("\n\t\t Maraming Salamat Po
!!");
} deploy();
```

```
Source Code:
                                                 inquire (i=0; i<4; i++) {
                                                 inquire (j=0; j<4; j++) {
unit num[4][4];
                                                 inorder(i = = j) {
unit i=0;
                                                 sum = sum + num[i][j];
unit j=0;
                                                }}}post(sum);
unit sum=0;
                                                }order {
                                                 post("The Sum is not possible imbalance
PrimaryMission() {
                                                Matrix : n ");
unit choice;
go {
                                                 go { company ch;
commence;
                                                 post("\n\t\t\t\t\t\t\t) WANT MORE? [Y] Yes
post ("Enter the Elements of the 4X4
                                                 or [N] No: "); capture (#ch);
                                                 inorder((ch = = "Y") | | (ch = = "y")) {
Matrix: \n");
inquire(i=0; i<4; i++) {
                                                 choice = 1; i=0;
inquire (j=0; j<4; j++) {
                                                 j=0; sum=0;
post("Element " + i + " , " + j + " :
                                                 } otherorder((ch = = "N") | (ch = =
");
                                                 "n")) { choice = 0;
capture(#num[i][j]);
                                                 } order {
                                                 post("\n\t\tError Input!");
                                                 choice = 3;
post("The Matrix is: \n ");
                                                } phase (choice = = 3);
inquire (i=0; i<4; i++) {
inquire(j=0; j<4; j++) {
                                                } phase(choice != 0);
post("\t'" + num[i][j] + "");
                                                 post("\n\t\t Maraming Salamat Po
                                                 !!");
post("\n");
                                                 } deploy();
post("\n The Sum of diagonals of the
matrix is:\n ");
inorder(i = = j) {
```

```
Sum of Arithmetic Series
Sample Input - Output:
```

```
Enter the number of terms in Arithmetic Series:

Enter the number to start the Arithmetic Series:

Enter the number of difference between the Arithmetic Series:

-6

AP SERIES

3
-3
-9
-15
-21

Sum of the AP Series till 5 is -45

YOU WANT MORE? [Y] Yes or [N] No:
```

```
Source Code:
                                               unit value;
                                               or [N] No: ");
PrimaryMission() {
unit first, diff, terms, sum=0, i, choice;
                                               capture (#ch);
                                               inorder ((ch = = "Y") | (ch = = "y")) {
commence;
                                               choice = 1;
post ("Enter the number of terms in
                                               first=0;
Arithmetic Series: \n");
                                               diff=0;
capture (#terms);
                                               terms=0;
post("Enter the number to start the
                                               sum=0;
Arithmetic Series: \n");
                                               i=0;
capture (#first):
                                               value=0;
post("Enter the number of difference
between the Arithmetic Series: \n");
                                               otherorder((ch = = "N") || (ch = =
capture (#diff);
                                               "n")) {
value=first;
                                               choice = 0;
post("\n\t\t\AP SERIES \n ");
                                               order {
inquire(i=0;i<terms;i++) {</pre>
                                               post("\n\t\t\tError Input!");
post("\n\t" + value + "");
                                               choice = 3;
sum= sum+value;
value = value + diff;
                                               } phase (choice = = 3);
                                               } phase(choice != 0);
post("\n\t\t\sum\ of\ the\ AP\ Series\ till
                                               post("\n\t\t\t Maraming Salamat Po
" +terms+ " is " +sum+ " ");
                                               !!"):
                                               } deploy();
go {
company ch;
                                               Commision of Sales agent base on Sales
```

Sample Input - Output

```
the total sale value of an agent : -90000
                                                                      otherorder(svalue
lease enter a positive amount of money: 90000
                                                                      <= 30000) {
or a total sale value of : 90000
The Agent's Commission is : 28800
                                                                      c = 15.0 / 100;
                                                                      com = svalue * c:
                                                                      post ("For a total
                           YOU WANT MORE? [Y] Yes or [N] No:
                                                                      sale value of: "
                                               +svalue+ " \n ");
Source Code:
                                               post("The Agent's Commission is : "
digit svalue;
                                               +com+ "\n");
digit com, c:
PrimaryMission() {
                                               otherorder(svalue <= 50000) {
unit choice;
                                               c = 25.0 / 100;
go {
                                               com = svalue * c;
commence;
                                               post ("For a total sale value of: "
post("Enter the total sale value of an
                                               +svalue+ " \n ");
agent: ");
                                               post("The Agent's Commission is: "
capture (#svalue);
                                               +com+ " \setminus n ");
phase(svalue<0) {
post ("Please enter a positive amount of
                                               order {
money: ");
                                               c = 32.0 / 100;
capture (#svalue):
                                               com = svalue * c:
                                               post ("For a total sale value of: "
inorder(svalue <= 10000) {
                                               +svalue+ " \n ");
c = 5.0 / 100;
                                               post ("The Agent's Commission is: "
com = svalue * c;
                                               +com+ " \n ");
post("For a total sale value of: "
+svalue+ " \n "):
post ("The Agent's Commission is: "
                                               go {
+com+ " \n ");
                                               company ch;
                                               post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
                                               or [N] No: ");
                                               capture (#ch);
                                               inorder((ch = = "Y") | (ch = = "y")) {
                                               choice = 1;
                                               svalue=0;
                                               c=0;
                                               com=0:
otherorder(svalue <= 20000) {
c = 10.0 / 100:
                                               otherorder ((ch = = "N") || (ch = =
com = svalue * c;
                                               "n")) {
post ("For a total sale value of: "
                                               choice = 0;
+svalue+ " \n "):
post("The Agent's Commission is: "
                                               order {
+com+ " \n ");
                                               post("\n\t\tError Input!");
```

```
Term count is : 2 SUM equal to : 1

YOU WANT MORE? [Y] Yes or [N] No:
```

Source Code: Taylor Series or Power Of

```
Exponents
} phase (choice = = 3);
                                                 digit accuracy = 0.0001;
} phase(choice != 0);
                                                 PrimaryMission() {
post("\n\t\t\ Maraming Salamat Po
!!");
                                                 unit n, count, choice;
} deploy();
                                                 digit x, term, sum=0.0;
                                                 go {
                                                 commence;
                                                 post("Enter value of x : ");
                                                 capture(#x);
                                                 n=1;
                                                 term=1;
                                                 sum=1;
                                                 count=1;
                                                 phase (n \le 100) {
                                                 term = term*(x/n);
```

sum = sum + term; count = count +1;

choice = 3;

```
inorder(term<accuracy) {</pre>
n = 999;
}
order {
n = n+1;
post("\n Term count is : " +count+ "
SUM equal to : " +sum+ " ");
go {
company ch;
post("\n\t\t\t\t\t) WANT MORE? [Y] Yes
or [N] No: ");
capture (#ch);
inorder((ch = = "Y") || (ch = = "y")) {
choice = 1;
n=0;
term=0;
sum=0;
x=0;
count=0;
accuracy = 0.0001;
otherorder((ch = = "N") || (ch = =
"n")) {
choice = 0;
order {
post("\n\t\t\tError Input!");
choice = 3;
} phase (choice = = 3);
} phase(choice != 0);
post("\n\t\t\ Maraming Salamat Po
!!");
} deploy();
```

C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe — X Enter the number of Capacitors: 4 Enter the Value of each Capacitor: C1 3 C2 2 C3 4 C4 5 Equivalent Series Capacitance : 0.779220779220779 mFarad YOU WANT MORE? [Y] Yes or [N] No:

```
Cs = Cs + var2;
Source Code: Equivalent Capacitance of
Series Circuit
                                                Cs = 1/Cs;
digit c[10];
digit num, Cs=0;
                                                 post(" \n Equivalent Series Capacitance
digit var, var2;
                                                 : " + Cs + " mFarad ");
unit i;
                                                 go {
PrimaryMission() {
                                                 company ch;
unit choice;
                                                 post("\n\t\t\t\t\t\t\t) WANT MORE? [Y] Yes
                                                or [N] No: ");
go {
                                                 capture(#ch);
commence;
                                                 inorder((ch = = "Y") | (ch = = "y")) {
post("Enter the number of Capacitors:
                                                 choice = 1;
");
                                                num=0;
capture(#num);
                                                Cs=0:
                                                var=0;
post ("Enter the Value of each
                                                 var2=0;
Capacitor: \n");
                                                 i=0:
inquire(i=0;i<num;i++) {
                                                otherorder((ch = = "N") || (ch = =
var = i + 1;
                                                 "n")) {
post(" C" + var + " ");
                                                choice = 0;
capture(#c[i]);
inquire (i=0; i \le num; i++) {
```

var2 = 1/c[i];

```
order {
post("\n\t\tError Input!");
choice = 3;
}
phase(choice = = 3);
} phase(choice != 0);
post("\n\t\t Maraming Salamat Po
!!");
} deploy();
```

```
Enter a String/Word: Vince Aaron V. Dinglasan

Your total number of Lowercase vowels is: 7
Your total number of Lowercase consonants is: 9
Your total number of Uppercase vowels is: 1
Your total number of Uppercase consonants is: 3
Your total number of Even Number is: 0
Your total number of Zero is: 0
Your total number of Spaces is: 3
Your total number of other Character is: 1

TRY AGAIN? [Y] Yes or [N] No:
```

```
totalV++;
Source Code: Count Upper And LowerCase
vowel and consonants, Even and Odd
                                                otherorder(sentence[i] = = 'e') {
Number
                                                totalV++;
PrimaryMission() {
unit totalV = 0;
                                                otherorder(sentence[i] = = 'i') {
unit totalC = 0;
                                                totalV++;
unit totalCC = 0;
unit totalVC = 0;
                                                otherorder(sentence[i] = = 'o') {
unit totalNumeven = 0:
                                                totalV++;
unit totalNumodd = 0;
unit totalNumzero = 0;
                                                otherorder(sentence[i] = = 'u') {
unit totalSpace = 0;
                                                totalV++;
unit totalCh = 0;
unit length, i;
                                                otherorder(sentence[i] = = 'A') {
company sentence;
                                                totalVC++;
unit choice=0;
                                                otherorder(sentence[i] = = 'I') {
go {
                                                totalVC++:
commence:
post("\n\t\tEnter a String/Word: ");
                                                otherorder(sentence[i] = = 'E') {
capture (#sentence);
                                                totalVC++;
length = sentence.Extent;
                                                otherorder(sentence[i] = = '0') {
inquire (i = 0; i < length; i++) {
                                                totalVC++;
```

```
otherorder(sentence[i] = = 't') {
otherorder(sentence[i] = = 'U') {
                                                totalC++;
totalVC++;
                                                otherorder(sentence[i] = = 'v') {
otherorder(sentence[i] = = 'b') {
                                                totalC++;
totalC++;
                                                otherorder(sentence[i] = = 'w') {
otherorder(sentence[i] = = 'c') {
                                                totalC++;
totalC++;
                                                otherorder(sentence[i] = = 'x') {
otherorder(sentence[i] = = 'd') {
                                                totalC++;
totalC++;
                                                otherorder(sentence[i] = = 'y') {
otherorder(sentence[i] = = 'f') {
                                                totalC++;
totalC++:
                                                otherorder(sentence[i] = = 'z') {
otherorder(sentence[i] = = 'g') {
                                                totalC++;
totalC++:
                                                otherorder(sentence[i] = = 'B') {
otherorder(sentence[i] = = 'h') {
                                                totalCC++;
totalC++:
                                                otherorder(sentence[i] = = 'C') {
otherorder(sentence[i] = = 'j') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'D') {
otherorder(sentence[i] = = 'k') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'F') {
otherorder(sentence[i] = = '1') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'G') {
}
otherorder(sentence[i] = = 'm') {
                                                totalCC++;
totalC++:
                                                otherorder(sentence[i] = = 'H') {
otherorder(sentence[i] = = 'n') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'J') {
otherorder(sentence[i] = = 'p') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'K') {
otherorder(sentence[i] = = 'q') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'L') {
otherorder(sentence[i] = = 'r') {
                                                totalCC++;
totalC++;
                                                otherorder(sentence[i] = = 'M') {
otherorder(sentence[i] = = 's') {
                                                totalCC++;
totalC++;
}
                                                otherorder(sentence[i] = = 'N') {
```

```
totalCC++;
                                              otherorder(sentence[i] = = '6') {
otherorder(sentence[i] = = 'P') {
                                              totalNumeven++;
totalCC++;
                                              otherorder(sentence[i] = = '7') {
otherorder(sentence[i] = = 'Q') {
                                               totalNumodd++;
totalCC++:
                                              otherorder(sentence[i] = = '8') {
otherorder(sentence[i] = = 'R') {
                                               totalNumeven++;
totalCC++:
                                              otherorder(sentence[i] = = '9') {
otherorder(sentence[i] = = 'S') {
                                              totalNumodd++;
totalCC++;
                                              otherorder(sentence[i] = = '0') {
otherorder(sentence[i] = = 'T') {
                                               totalNumzero++;
totalCC++;
                                              order {
otherorder(sentence[i] = = 'V') {
                                              totalCh++;
totalCC++;
}
otherorder(sentence[i] = = 'W') {
totalCC++;
                                              post("\n\t\tYour total number of
                                              Lowercase vowels is: " + totalV);
otherorder(sentence[i] = = 'X') {
                                              post("\n\t\tYour total number of
totalCC++;
                                              Lowercase consonants is: " + totalC);
                                              post("\n\t\tYour total number of
otherorder(sentence[i] = = 'Y') {
                                              Uppercase vowels is: " + totalVC);
totalCC++;
                                              post("\n\t\t\t)tYour total number of
                                              Uppercase consonants is: " + totalCC);
otherorder(sentence[i] = = 'Z') {
                                              post("\n\t\tYour total number of Even
totalCC++;
                                              Number is: " + totalNumeven);
                                              post("\n\t\tYour total number of Odd
otherorder(sentence[i] = = ' ') {
                                              Number is: " + totalNumodd);
totalSpace++;
                                              post("\n\t\t\t\u) total number of Zero
                                              is: " + totalNumzero);
otherorder(sentence[i] = = '1') {
                                              post("\n\t\t\t\u) total number of
totalNumodd++;
                                              Spaces is: " + totalSpace);
                                              post("\n\t\tYour total number of
otherorder(sentence[i] = = '2') {
                                              other Character is: " + totalCh);
totalNumeven++;
                                              go {
otherorder(sentence[i] = = '3') {
                                              company ch;
totalNumodd++:
                                              [N] No: ");
otherorder(sentence[i] = = '4') {
                                              capture (#ch);
                                              inorder((ch = = "Y") | (ch = = "y")) {
totalNumeven++;
                                               totalV = 0;
                                              totalVC = 0;
otherorder(sentence[i] = = '5') {
totalNumodd++;
                                               totalC = 0;
```

```
totalCC = 0;
totalNumeven =0;
totalNumodd = 0;
totalSpace = 0;
totalCh =0;
length=0;
i=0;
sentence= " ";
choice = 1;
otherorder((ch = = "N") || (ch = =
"n")) {
choice = 0;
order {
post("\n\t\t\tError Input!");
choice = 3;
}
} phase (choice = = 3);
} phase(choice != 0);
post("\n\t\t\tGOODBYE!!");
} deploy();
```

```
Tinput N: 6
2
2 4
2 4 6
2 4 6 8
2 4 6 8 10
2 4 6 8 10
2 YOU WANT MORE? [Y] Yes or [N] No:
```

```
PrimaryMission() {
                                             unit i, j, n, num= 2, choice;
                                             or [N] No: ");
go {
                                              capture(#ch);
                                              inorder((ch = = "Y") | (ch = = "y")) {
commence;
post("Input N: ");
                                              choice = 1;
capture(#n);
                                              i=0;
phase (n<0)
                                              j=0;
post ("Please Enter a Positive Integer:
                                             n=0;
n'';
                                             num=2;
capture(#n);
inquire(i=0; i \le n; i++) {
inquire(j=0; j \le i; j++) {
                                             otherorder((ch = = "N") || (ch = =
post(" " +num+ " ");
                                              "n")) {
                                              choice = 0;
num = num + 2;
post("\n");
                                             order {
                                             post("\n\t\tError Input!");
                                              choice = 3;
go {
company ch;
                                              } phase (choice = = 3);
                                              } phase(choice != 0);
```

```
C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                              ×
Enter the number of terms in Geometric Series:
Enter the number to start the Geometric Series:
Enter the number of difference between the Geometric Series:
                          GP SERIES
                          28
                 14
                          Sum of the GP Series till 3 is 49
                          YOU WANT MORE? [Y] Yes or [N] No:
post("\n\t\t\t Maraming Salamat Po
!!");
                                               post("\n\t\t\sum\ of\ the\ GP\ Series\ till
                                               " +terms+ " is " +sum+ " ");
} deploy();
Source Code: Geometric Series
                                               go {
                                               company ch;
unit value;
PrimaryMission() {
                                               post("\n\t\t\t\t\t\t\t) WANT MORE? [Y] Yes
unit first, ratio, terms, sum=0, i, choice;
                                               or [N] No: ");
go {
                                               capture (#ch);
                                               inorder((ch = = "Y") | | (ch = = "y")) {
commence;
post ("Enter the number of terms in
                                               choice = 1;
Geometric Series: \n");
                                               first =0; terms=0; ratio=0; value=0; sum=0;
capture (#terms);
                                               otherorder ((ch = = "N") || (ch = =
post ("Enter the number to start the
Geometric Series: \n");
                                               "n")) {
capture (#first);
                                               choice = 0;
post("Enter the number of ratio between
                                               }order {
the Geometric Series: \n");
                                               post("\n\t\tError Input!");
capture (#ratio);
                                               choice = 3;
value=first;
                                               \}} phase (choice = = 3);
post("\n\t\tGP SERIES \n");
                                               } phase(choice != 0);
                                               post("\n\t\t\t Maraming Salamat Po
inquire(i=0;i<terms;i++) {
                                               !!");
post("\t" + value + " " );
                                               } deploy();
sum= sum+value;
```

value = value * ratio;

```
C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe — X

Enter the number of terms in Harmonic Series:
3
Enter the number to start the Harmonic Series:
2
Enter the number of difference between the Harmonic Series:
5

HP SERIES
1/2 1/7 1/12
Sum of the HP Series till 3 is 0.726190476190476
YOU WANT MORE? [Y] Yes or [N] No:

post("\t1/" + denominator + " " );
```

```
Source Code: Harmonic Series
                                                 sum= sum + 1/denominator:
digit denominator;
                                                 denominator = denominator + diff;
digit sum= 0;
                                                 post("\n\t\t\sum\ of\ the\ HP\ Series\ till
PrimaryMission() {
                                                 " +terms+ " is " +sum+ " ");
unit first, diff, terms, i, choice;
go {
                                                 go {
commence:
post ("Enter the number of terms in
                                                 company ch;
                                                 post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
Harmonic Series: \n");
                                                 or [N] No: ");
capture (#terms);
                                                 capture (#ch);
phase(terms<0) {</pre>
                                                 inorder((ch = = "Y") | (ch = = "y")) {
post ("Please Enter a Positive number of
terms :\n ");
                                                 choice = 1;
                                                 first =0;
capture (#terms);
                                                 terms=0;
post("Enter the number to start the
                                                 diff=0;
Harmonic Series: \n");
                                                 denominator=0;
capture (#first);
                                                 sum=0;
post ("Enter the number of difference
between the Harmonic Series: \n");
capture (#diff);
denominator=first;
                                                 otherorder ((ch = = "N") | | (ch = =
post("\n\t\t) SERIES \n ");
                                                 "n")) {
inquire(i=0;i<terms;i++) {
```

```
choice = 0;
                                                 capture (#rows);
order {
                                                 inquire(i=0;i<rows;i++) {
post("\n\t\t\tError Input!");
                                                 inquire(j=0; j \le i; j++) {
choice = 3;
                                                 var = i*j;
                                                 post(" " + var + " ");
} phase (choice = = 3);
} phase(choice != 0);
                                                 post("\n");
post("\n\t\t\t Maraming Salamat Po
!!");
} deploy();
                                                 go {
                                                 company ch;
Source Code: Multiplication Triangle
PrimaryMission() {
                                                 post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
                                                 or [N] No: ");
unit i, j, rows, var;
unit count=1;
                                                 capture (#ch);
                                                 inorder((ch = = "Y") | | (ch = = "y")) {
unit choice;
                                                 choice = 1;
go {
                                                 i=0;
commence;
                                                 j=0;
post("Enter the Multiplication table
rows: n'';
                                                 rows=0;
capture (#rows);
                                                 var=0;
                                                 count=1;
phase (rows<0) {
post("Please Enter a Positive number of
ROWS!! :\n'');
```

X

```
C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                                Х
                                                                        Enter The number of rows for natural TRIANGLE:
             19 20 21
                        YOU WANT MORE? [Y] Yes or [N] No:
 otherorder((ch = = "N") || (ch = =
  "n")) {
  choice = 0;
 }
 order {
  post("\n\t\t\tError Input!");
  choice = 3;
 } phase (choice = = 3);
 } phase(choice != 0);
 post("\n\t\t Maraming Salamat Po
  !!");
 } deploy();
```

```
Source Code: Natural Number Triangle
PrimaryMission() {
unit i, j, rows, choice;
```

```
inorder((ch = = "Y") | | (ch = = "y")) {
  unit count =1;
 C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                              X
Enter permutation number for the patern P(n,r)
Enter the value of n: 3
Enter the value of r: 3
The Factorial of P(3,3)=6
                                                  choice = 1;
  go {
                                                  i=0;
  commence;
                                                  j=0;
  post ("Enter The number of rows for
                                                  rows=0;
  natural TRIANGLE: \n ");
                                                  count=1;
  capture (#rows);
  phase(rows<0) {</pre>
  post("Please Enter a Positive number of
  ROWS!! : \n'');
                                                  otherorder((ch = = "N") || (ch = =
  capture (#rows);
                                                  "n")) {
  }
                                                  choice = 0;
  inquire(i=1; i \le rows; i++) {
  inquire(j=1; j \le i; j++) {
                                                  order {
  post(" " +count+ " ");
                                                  post("\n\t\tError Input!");
  count++;
                                                  choice = 3;
  post("\n");
                                                  } phase (choice = = 3);
                                                  } phase(choice != 0);
                                                  post("\n\t\t\t Maraming Salamat Po
                                                  !!");
  go {
  company ch;
                                                  } deploy();
  post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
  or [N] No: ");
                                                  Source Code: Permutation
```

capture (#ch);

unit fact(unit c) {

```
unit f=1;
                                                     Source Code: Sum of Upper Triangle of a
phase (c>0) {
                                                     Matrix
f = f *c;
                                                     unit a[10][10];
c--;
                                                     unit j;
} backup(f);
                                                     PrimaryMission() {
                                                     unit i, sum, rows, columns, choice;
PrimaryMission() {
unit p, r, n, v;
                                                     go {
post("Enter permutation number for the
                                                     commence;
patern P(n, r) \setminus n'';
                                                     post("\n Enter the number Rows: ");
post("Enter the value of n: ");
                                                     capture (#rows);
capture (#n);
post ("Enter the value of r: ");
                                                     post("\nEnter the number of Columns:
capture(#r);
                                                      ");
p = fact(n) / fact(n-r);
                                                     capture(#columns);
post("The Factorial of P(" +n+ "," +r+
") = " +p+ " ");
                                                     inquire(i=0:i<rows:i++) {</pre>
} deploy();
                                                     inquire(j=0; j<columns; j++) {</pre>
                                                     post("\n Enter The Element " + i + " ,
                                                     " + j+ " ");
                                                     capture(#a[i][j]);
                                                     sum = 0;
                                                     inquire(i=0;i<rows;i++) {
                                                     inquire(j=0; j<columns; j++) {</pre>
                                                                                                     ×
  C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                                              Enter the number Rows: 3
 Enter the number of Columns: 4
 Enter The Element 0 , 0 1
 Enter The Element 0 , 1 1
 Enter The Element 0 , 2 1
  Enter The Element 0 , 3 1
  Enter The Element 1 , 0 1
  Enter The Element 1 , 1 1
  Enter The Element 1 , 2 1
  Enter The Element 1 , 3 1
  Enter The Element 2 , 0 1
  Enter The Element 2 , 1 1
  Enter The Element 2 , 2 1
 Enter The Element 2 , 3 1
  The Sum of Upper Triangle Elements: 6
                      YOU WANT MORE? [Y] Yes or [N] No:
```

inorder(i<j) {

```
sum =
                                                                                           Х
         C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                                   sum +
        inter Principle Amount :
        99999
         nter Time of interest:
        inter the rate of interest:
        Compound Interest is equal to : 5400
                                 YOU WANT MORE? [Y] Yes or [N] No:
a[i][j];
                                            order {
                                             post("\n\t\tError Input!");
                                             choice = 3;
post("\n The Sum of Upper Triangle
Elements: " +sum+ " ");
                                             } phase(choice = = 3);
                                             } phase(choice != 0);
go {
                                            post("\n\t\t\t Maraming Salamat Po
company ch;
                                             !!");
} deploy();
or [N] No: ");
capture (#ch);
                                            Source Code: Compound Interest
inorder ((ch = = "Y") | (ch = = "y")) {
                                            PrimaryMission() {
choice = 1;
                                             digit principle, rate,
i=0;
                                            C, C2, rated, timed;
j=0;
                                            unit time, choice;
rows=0;
sum=0;
                                             go {
columns=0;
                                             commence;
                                            post("Enter Principle Amount : \n");
                                             capture(#principle);
                                            post("Enter Time of interest: \n");
otherorder ((ch = = "N") | | (ch = =
                                             capture(#time);
"n")) {
choice = 0;
```

```
post("Enter the rate of interest: \n");
capture (#rate);
rated= 1 + (rate/100);
timed= rated*time;
C = principle*rated;
C2 = (C-principle) * time;
post("Compound Interest is equal to: "
+C2+ "n");
go {
company ch;
post("\n\t\t\t\t\t\t\t) WANT MORE? [Y] Yes
or [N] No: ");
capture (#ch);
inorder((ch = = "Y") | | (ch = = "y")) {
choice = 1;
principle =0;
rated=0;
C=0;
C2=0;
time=0;
timed=0;
rate=0;
otherorder((ch = = "N") || (ch = =
"n")) {
choice = 0;
order {
post("\n\t\tError Input!");
choice = 3;
} phase (choice = = 3);
} phase(choice != 0);
post("\n\t\t Maraming Salamat Po
!!");
} deploy();
```

C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe Enter value of N: 5 The total sum of all squares from numbers 1 to 5 : 55 TRY AGAIN? [Y] Yes or [N] No:

```
post("\n\t\t\t) total sum of all
                                             squares from numbers 1 to " + no + ":
Source Code: Sum of Squares from 1-n
                                             " + sum + " \n" );
PrimaryMission() {
unit a, no, var, choice, square = 0,
sum=0;
go {
                                             go {
commence;
                                             company ch;
post("\n\t\t Enter value of N: ");
                                             capture(#no);
                                             [N] No: ");
inorder (no>0) {
                                             capture (#ch);
inquire (a=1; a \le no; a++) {
                                             inorder((ch = = "Y") | (ch = = "y")) {
square=a*a;
                                             no=0;
sum=sum+square;
                                             var=0;
}
                                             choice = 1:
post("\n\t\t\t) total sum of all
squares from numbers 1 to " + no + ":
                                             sum=0;
" + sum + " \n" );
                                             square=0;
                                             otherorder ((ch = = "N") | | (ch = =
order {
                                             "n")) {
inquire (a=1;a)=no;a--) {
                                             choice = 0;
square=a*a;
sum=sum+square;
                                             order {
}
                                             post("\n\t\tError Input!");
                                             choice = 3;
```

```
C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe

Enter the number of terms in the array: 3
Enter the array elements:
element: 3
element: 3
element: 3
Average is : 3

YOU WANT MORE? [Y] Yes or [N] No:
```

```
inquire(i=0; i \le m; i++) {
Souce Code: Average of set of elements
                                             sum = sum + a[i];
unit a[100];
                                             avg= sum/m;
PrimaryMission() {
                                             post("Average is : " +avg + " ");
unit m, i, choice;
unit sum= 0;
                                             go {
unit avg= 0;
                                             company ch;
                                             go {
                                             or [N] No: ");
                                             capture(#ch);
post("Enter the number of terms in the
                                             inorder((ch = = "Y") | | (ch = = "y")) {
array: ");
                                             choice = 1;
capture (#m);
phase (m<0) {
                                             i=0;
                                             m=0;
post("Enter positive number of terms
in the array: ");
                                             avg=0;
                                             sum=0;
capture(#m);
a[m] = a[m];
```

```
}
otherorder((ch = = "N") || (ch = =
"n")) {
choice = 0;
}
order {
post("\n\t\tError Input!");
choice = 3;
}
} phase(choice = = 3);
} phase(choice != 0);
post("\n\t\t Maraming Salamat Po
!!");
} deploy();
```

```
post(""+i+"\n");
Source Code: Multiples of y in given
range
PrimaryMission() {
unit a, i, y, z, choice;
                                             order {
                                             post("Input value is too low.....:
go {
                                             ");
commence;
                                             }
post("Enter the number of multiples:
"):
                                             go {
capture(#y);
                                             company ch;
phase (y<0) {
                                             post("Enter positive number of
                                             or [N] No: ");
multiples: ");
                                             capture(#ch);
capture (#y);
                                             inorder((ch = = "Y") | (ch = = "y")) {
                                             choice = 1:
post("Enter range (n) [1-n] : ");
                                             i=0;
capture (#z);
                                             a=0;
inorder(z)=1) {
                                             y=0;
inquire(i=1; i \le z; i++) {
                                             z=0;
a = i \% y;
inorder(a = = 0) {
```

```
}
otherorder((ch = = "N") || (ch = =
"n")) {
choice = 0;
}
order {
post("\n\t\tError Input!");
choice = 3;
}
} phase(choice = = 3);
} phase(choice != 0);
post("\n\t\t Maraming Salamat Po
!!");
} deploy();
```

```
Tecount (e);
```

```
Source Code: Number that don't
                                                  c = a * b + a + f;
                                                  backup(c);
contains 3 within the range
unit count(unit n) {
                                                  order {
unit m, msd, a, t, b, c, e, f, g, d;
                                                  d = msd* po -1;
unit po=1;
                                                  g = count(d);
inorder (n<3) {
                                                  backup(g);
backup(n);
inorder ((n)=3) & (n<10)
n=n-1:
                                                  PrimaryMission() {
backup(n);
                                                  unit m, msd, a, t, b, c, e, f, g, d;
                                                  unit ans, val, choice;
m= n/po;
                                                  unit po=1;
phase (m>9) {
                                                  go {
po = po * 10;
                                                  commence;
m= n/po;
                                                  post("Enter value: ");
}
                                                  capture(#val);
                                                  phase (val<0) {
msd = n/po;
                                                  post("Enter positive value: ");
inorder(msd !=3) {
                                                  capture(#val);
a = count(msd);
t= po-1;
                                                  ans = count(val);
b=count(t);
                                                  post(" " +ans+ " ");
e= n\%po;
```

X

```
C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                              ×
                                                                       A program that calculates your weight on another planet:
Enter you Mass (kg) on earth:
Choose from the following Planets...
[1] Mercury
[2] Venus
[3] Mars
[4] Jupiter
[5] Saturn
[6] Uranus
7] Neptune
Enter the Assigned Number [1-7]: 3
Your weight onMars is 24.064
Wanna Do it again? [1] Yes | [2] No
```

```
go {
                                                 order {
                                                 post("\n\t\t\tError Input!");
company ch;
post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
                                                 choice = 3;
or [N] No: ");
capture (#ch);
                                                 } phase (choice = = 3);
inorder((ch = = "Y") | | (ch = = "y")) {
                                                 } phase(choice != 0);
                                                 post("\n\t\t Maraming Salamat Po
choice = 1:
                                                 !!");
m=0;
                                                 } deploy();
msd=0;
ans=0;
va1=0;
a=0;
                                                 Source Code: Gravity converter
b=0;
                                                 PrimaryMission() {
c=0;
                                                 unit earth, nplanet, checker, ans;
d=0;
                                                 unit again=0;
g=0;
                                                 digit weight=0;
f=0;
                                                 company splanet = " ";
t=0:
po=0;
                                                 post ("A program that calculates your
                                                 weight on another planet:\n ");
otherorder ((ch = = "N") | | (ch = =
                                                 post ("Enter you Mass (kg) on earth:
"n")) {
                                                 n'';
choice = 0;
                                                 go {
                                                 capture (#earth);
```

```
inorder(earth<=0) {
                                                 splanet = "Uranus";
post ("Please dont input zero or
                                                 checker =0;
negative number, Input again: ");
checker=1;
                                                 otherorder (nplanet = = 2) {
}
                                                 weight = earth * 1.14;
order {
                                                 splanet = "Neptune";
checker =0:
                                                 checker =0:
} phase (checker= = 1);
                                                 order {
post ("\nChoose from the following
                                                 post ("Invalid Input!! - Please Input
Planets... \n[1] Mercury\n[2]
                                                 again: ");
Venus\n[3] Mars\n[4] Jupiter\n[5]
                                                 checker=1;
Saturn \setminus [6] Uranus \setminus [7] Neptune \setminus [7];
post ("Enter the Assigned Number [1-7]:
                                                 } phase(checker==1);
");
                                                 post("\nYour weight on" +splanet+ " is
                                                 " +weight+ " " );
go {
capture(#nplanet);
                                                 post("\n Wanna Do it again? [1] Yes |
inorder(nplanet = = 1) {
                                                 [2] No ");
weight = earth * 0.38;
                                                 go {
splanet = "Mercury";
                                                 capture (#ans);
checker =0;
                                                 inorder(ans==1) {
                                                 commence;
otherorder (nplanet = = 2) {
                                                 checker = 0;
weight = earth * 0.38;
                                                 again=1;
splanet = "Mercury";
checker =0:
                                                 otherorder (ans= =2) {
                                                 post("Thanks You ");
otherorder(nplanet = = 2) {
                                                 checker = 0;
weight = earth * 0.904;
                                                 again =0;
splanet = "Venus";
checker =0;
                                                 order {
                                                 post ("Invalid Input !!! Please Input
otherorder (nplanet = = 3) {
                                                 again: ");
weight = earth * 0.376;
                                                 checker = 1;
splanet = "Mars";
checker =0;
                                                 } phase(checker= =1);
                                                 } phase (again = =1);
otherorder(nplanet = = 4) {
                                                 } deploy();
weight = earth * 2.53;
splanet = "Jupiter";
checker =0;
otherorder (nplanet = = 5) {
weight = earth * 1.07;
splanet = "Saturn";
checker =0;
otherorder(nplanet = = 6) {
weight = earth * 0.89;
```

```
Source Code Predecessor and Successor
SUM
unit x, i, n;
digit y, w;
PrimaryMission() {
digit sumy=0;
digit sumw=0;
unit choice;
go {
commence;
post ("Enter an integer to find the
successor and predecessor: ");
capture (#x);
post("Enter on how many Successor and
Predecessor you want: ");
capture (#n);
inorder ((x>0) | | (x<0)) {
post("\nThe Sum of the Predecessors of
" +x+ " upto " + n + ": ");
inquire (i=1; i \le n; i++) {
w = x-i;
post(w + ", ");
sumw = sumw + w;
```

```
post("\b\b is " + sumw + "\n");
post("\nThe Sum of the Successors of "
+x+ " upto " + n + ": ");
inquire(i=1; i \le n; i++) {
y = x+i;
post(y + ", ");
sumy = sumy + y;
post("\b\b is " + sumy + "\n");
}
go {
company ch;
or [N] No: ");
capture (#ch);
inorder((ch = = "Y") | (ch = = "y")) {
choice = 1;
n=0;
sumy=0;
sumw=0;
X=0;
```

```
Source Code: Predecessors and
                                                 go {
Successors
unit x, i, n;
                                                 company ch;
                                                 post("\n\t\t\t\t\VOU WANT MORE? [Y] Yes
digit y, w;
PrimaryMission() {
                                                 or [N] No: ");
digit sumy=0;
                                                 capture (#ch);
                                                 inorder((ch = = "Y") | | (ch = = "y")) {
digit sumw=0;
                                                 choice = 1;
unit choice;
                                                 n=0;
go {
                                                 x=0;
commence;
                                                 i=0;
post ("Enter an integer to find the
                                                 w=0:
successor and predecessor: ");
                                                 y=0;
capture (#x);
post ("Enter on how many Successor and
Predecessor you want: ");
                                                 otherorder ((ch = = "N") || (ch = =
capture (#n);
                                                 "n")) {
inorder ((x>0) | (x<0)) {
                                                 choice = 0;
post("Your Predeccessors are: \n");
inquire (i=1; i \le n; i++) {
                                                 order {
                                                 post("\n\t\t\tError Input!");
w = x-i;
post(w + ", ");
                                                 choice = 3;
post("\nYour Successors are: \n");
                                                 } phase (choice = = 3);
inquire (i=1; i \le n; i++) {
                                                 } phase(choice != 0);
                                                 post("\n\t\t Maraming Salamat Po
v = x+i:
post(y + ", ");
                                                 !!");
                                                 } deploy();
```

```
×
 C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                               Enter number of Elements in array;
Enter 6 numbers
Unique Elements of array are :
                          YOU WANT MORE? [Y] Yes or [N] No:
                                               inquire(i=0;i<size;i++) {</pre>
                                               inquire(j=0; j < i; j++) {
Source Code: Unique Elements
unit array[100];
                                               inorder(array[i] = = array[j]) {
                                               inorder(i = = j) {
PrimaryMission() {
                                               post(" " + array[i] + " ");
unit size, i, j, choice;
go {
                                               abort();
                                               }
commence;
post ("Enter number of Elements in
array; \n");
                                               inorder(i = = j) {
                                               post(" " + array[i] + " ");
capture (#size);
phase(size<0) {
post("Please ENTER A NUMBER Greater
than ZERO: ");
capture (#size);
                                               go {
                                               company ch;
post("Enter " +size+ " numbers \n ");
                                               post("\n\t\t\t\t\t) WANT MORE? [Y] Yes
                                               or [N] No: ");
inquire(i=0;i<size;i++) {
                                               capture(#ch);
capture(#array[i]);
                                               inorder((ch = = "Y") | (ch = = "y")) {
                                               choice = 1;
                                               i=0;
post("Unique Elements of array are : \n
                                               j=0;
");
                                               size=0;
```

```
C:\Users\USER\Desktop\ToProgramDing\Debug\Out.exe
                                                                         ×
Enter the first number;
Enter the second number:
Divisible by what ????
, 18, 15, 12, 9, 16 That Number/s
Number of integers divisible by 3 between 4 and 20 is:
Sum of all integers that are divided by 3 = 60
 otherorder((ch = = "N") || (ch = =
 "n")) {
 choice = 0;
 order {
 post("\n\t\t\tError Input!");
 choice = 3;
 } phase(choice = = 3);
 } phase(choice != 0);
 post("\n\t\t\t Maraming Salamat Po
 !!");
 } deploy();
                                              Source Code: Number divisible by n
                                              within the range and its sum
```

PrimaryMission() {

unit count=0;
unit sum=0;

unit i, num1, num2, div, res, choice;

```
go {
commence;
post("Enter the first number; \n");
capture(#num1);
post("Enter the second number: \n");
capture(#num2);
post("Divisible by what ???? \n");
capture (#div);
inorder((num1>0) & (num2>0)) {
post("That Number/s : ");
inquire(i=num1;i<num2;i++) {
res = i\%div;
inorder(res = = 0) {
post(i + ",");
count = count +1;
sum = sum+i;
}
post("\n Number of integers divisible
by " + \operatorname{div} + " between " +\operatorname{num1}+" and "
+num2+ " is: " +count+ "");
post("\n Sum of all integers that are
divided by " + div + " = " + sum + " ");
}
order {
post("Invalid Value ");
go {
company ch;
post("\n\t\t\t\t\t\t) WANT MORE? [Y] Yes
or [N] No: ");
capture (#ch);
inorder((ch = = "Y") | | (ch = = "y")) {
choice = 1;
res=0;
div=0;
i=0;
num1=0;
num2=0;
count=0;
sum=0;
otherorder ((ch = = "N") | | (ch = =
"n")) {
choice = 0;
}
```

```
order {
post("\n\t\tError Input!");
choice = 3;
}
} phase(choice = = 3);
} phase(choice != 0);
post("\n\t\t Maraming Salamat Po
!!");
} deploy();
```

```
Enter range of numbers: -3
Enter positive range of numbers: 5
Enter multiple for FIZZ: 5
Enter multiple for BUZZ: 2

BUZZ
BUZZ
FIZZ

YOU WANT MORE? [Y] Yes or [N] No:
```

```
Source Code: BUZZFIZZ
                                                   phase(buzz<0) {</pre>
                                                   post("Enter positive range of numbers:
PrimaryMission() {
                                                   ");
                                                   capture(#buzz);
unit
num, i, buzz, fizz, bufsum, fisum, buss, busum
                                                   inquire(i=1;i \le num;i++) {
unit choice;
                                                   buss=fizz * buzz;
go {
                                                   bufsum=i%buss:
commence;
                                                   fisum = i%fizz:
post("Enter range of numbers: ");
                                                   busum = i%buzz;
capture (#num);
                                                   inorder(bufsum= = 0) {
phase(num<0) {</pre>
                                                   post("BUZZFIZZ\n");
post ("Enter positive range of numbers:
");
                                                   otherorder(fisum = =0) {
                                                   post("FIZZ\n");
capture(#num);
post("Enter multiple for FIZZ: ");
                                                   otherorder (busum= = 0) {
capture (#fizz);
                                                   post("BUZZ \setminus n");
phase(fizz<0) {</pre>
                                                   order {
post("Enter positive range of numbers:
                                                   post(i + "\n");
");
capture (#fizz);
post("Enter multiple for BUZZ: ");
capture (#buzz);
                                                   go {
```

Х

```
company ch;
post("\n\t\t\t\t\t\t\t) WANT MORE? [Y] Yes
or [N] No: ");
capture (#ch);
inorder((ch = = "Y") | | (ch = = "y")) {
choice = 1;
i=0;
num=0;
buzz=0;
fizz=0;
fisum=0;
buss=0;
busum=0;
bufsum=0;
}
otherorder((ch = = "N") || (ch = =
"n")) {
choice = 0;
order {
post("\n\t\t\tError Input!");
choice = 3;
}
} phase (choice = = 3);
} phase(choice != 0);
post("\n\t\t\t Maraming Salamat Po
!!");
} deploy();
```

```
Source code:
Circle without floating point
                                               order {
                                               post("INVALID!!!! " );
arithmetic
                                               } go {
unit r;
                                               company ch;
                                               or [N] No: ");
PrimaryMission() {
                                               capture (#ch);
unit a, c, i, j, n, x, y;
                                               inorder((ch = = "Y") | | (ch = = "y")) {
unit choice;
                                               choice = 1;
go {
                                               a=0;
commence;
                                               c=0;
post("Enter value of N: ");
                                               i=0;
capture(#n);
                                               j=0;
inorder (n>0) {
                                               n=0;
n = 2 * r +1;
                                               x=0;
inquire (i=0; i \le n; i++) {
                                               y=0;
inquire(j=0; j \le n; j++) {
                                               r=0;
x = i -r;
                                               otherorder((ch = = "N") || (ch = =
y = j-r;
a = x * x + y * y;
                                               "n")) {
                                               choice = 0;
c = r*r+1;
inorder (a\leq=c) {
post(".");
                                               order {
                                               post("\n\t\tError Input!");
order {
                                               choice = 3;
post("* ");
                                               } phase(choice = = 3);
                                               } phase(choice != 0);
post("");
                                               post("\n\t\t\t Maraming Salamat Po
post("\n");
                                               !!");
                                               } deploy();
```