

```
code_0x002.c > area(int, int, int)
1  #include<stdio.h>
2  #include<stdlib.h>
3  #include<math.h>
4
5  void area(int a, int b, int c){int area, s; s = (a+b+c)/2;
6      area = sqrt(s*(s-a)*(s-b)*(s-c));
7      printf("-----\n Area is==>%d\n", area);}
8
9  int main()
10 {
11     int h, w, t;
12     printf("Enter Hight==>"); scanf("%d", &h);
13     printf("Enter widht==>"); scanf("%d", &w);
14     printf("Enter Pososto==>"); scanf("%d", &t);
15     area(h, w, t);
16 }
```

```
Administrator: Code Overflow
" Rafsan@coder >>g++ code_0x002.c -o area
" Rafsan@coder >>area
Enter Hight==>12
Enter widht==>23
Enter Pososto==>65
-----
Area is==>-2147483648
" Rafsan@coder >>area
Enter Hight==>4
Enter widht==>4
Enter Pososto==>4
-----
Area is==>6
" Rafsan@coder >>
```

Area >> code_0x002.c

```
code_0x006.c > ...
1  #include<stdio.h>
2  #include<math.h>
3
4  int toSecond(int hours, int minute, int second)
5  {
6
7      int sum = (hours*3600*3600)+(minute*3600)+second;
8      return sum;
9  }
10
11  int main()
12  {
13      int hours, minute, second;
14      scanf("%d", &hours, printf("[+]Enter The Hours==>"));
15      scanf("%d", &minute, printf("[+]Enter The Minute==>"));
16      scanf("%d", &second, printf("[+]Enter The Second==>"));
17      int sum= toSecond(hours, minute, second);
18      printf("\n-----\n");
19      printf("[#]Result Is ==>%d \n", sum);
20
21
22 }
```

```
Administrator: Code Overflow
" Rafsan@coder >>g++ code_0x006.c -o h_to_m
" Rafsan@coder >>h_to_m
[+]Enter The Hours==>25
[+]Enter The Minute==>15
[+]Enter The Second==>265
-----
[#]Result Is ==>324054265
" Rafsan@coder >>
```

Hours_to_minute >> code_0x006.c

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists files in a directory named 'LAB8', including 'code_0x001.c' through 'code_0x009.c', 'lab8.jpg', and 'pyramid.exe'. The main editor displays the source code for 'code_0x007.c' with line numbers 1 through 23. The code includes headers for `stdio.h`, `math.h`, and `stdlib.h`, and defines a `pattern` function and a `main` function. The `main` function uses `scanf` to get a row number and calls `pattern`. To the right, a terminal window titled 'Administrator: Code Overflow' shows the compilation command `g++ code_0x007.c -o pyramid` and the execution of the `pyramid` program, which prompts for the number of rows (4 and 6) and displays corresponding asterisk patterns.

```
1 #include<stdio.h>
2 #include<math.h>
3 #include<stdlib.h>
4
5 void pattern(int a )
6 {
7     for (int x=1; x<=a;x++)
8     {
9         for (int j=1 ; j<=x;j++)
10         {
11             printf("*");
12         }
13         printf("\n");
14     }
15 }
16
17 int main()
18 {
19     int row ;
20     scanf("%d",&row,printf("Enter Number Of Row==>"));
21     pattern(row);
22 }
23
```

```
" Rafsan@coder >>g++ code_0x007.c -o pyramid
" Rafsan@coder >>pyramid
Enter Number Of Row==>4
*
**
***
****

" Rafsan@coder >>pyramid
Enter Number Of Row==>6
*
**
***
****
*****
*****

" Rafsan@coder >>
```

Piramid >> code_0x007.c

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists files in a directory named 'LAB8', including 'code_0x001.c' through 'code_0x009.c', 'lab8.jpg', and 'pow.exe'. The main editor displays the source code for 'code_0x005.c' with line numbers 1 through 11. The code includes headers for `stdio.h`, `stdlib.h`, and `math.h`, and defines a `calculate` function and a `main` function. The `main` function uses `scanf` to get two numbers and calls `calculate`. To the right, a terminal window titled 'Administrator: Code Overflow' shows the compilation command `g++ code_0x005.c -o pow` and the execution of the `pow` program, which prompts for two numbers and displays the result of the power calculation for three different pairs of inputs.

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<math.h>
4 void calculate(int x, int y){int sum = pow(y,x);printf("\n-----\n [+]The Power x in y is==>%d \n",sum);}
5 int main()
6 {
7     int a,b;
8     printf("Enter x number ==>");scanf("%d",&a);
9     printf("Enter y number ==> ");scanf("%d",&b);
10     calculate(a,b);
11 }
```

```
" Rafsan@coder >>g++ code_0x005.c -o pow
" Rafsan@coder >>pow
Enter x number ==>5
Enter y number ==> 5

-----
[+]The Power x in y is==>3125

" Rafsan@coder >>pow
Enter x number ==>4
Enter y number ==> 4

-----
[+]The Power x in y is==>256

" Rafsan@coder >>pow
Enter x number ==>2
Enter y number ==> 2

-----
[+]The Power x in y is==>4

" Rafsan@coder >>
```

Pow >> code_0x005.c

File Edit Selection View Go Debug Terminal Help code_0x004.c - lab8 - Visual Studio Code [Administrator]

EXPLORER

- code_0x009.c
- code_0x001.c M
- code_0x002.c M
- code_0x004.c
- LAB8
 - submit
 - code_0x001.c M
 - code_0x002.c M
 - code_0x003.c
 - code_0x004.c
 - code_0x005.c
 - code_0x006.c
 - code_0x007.c
 - code_0x008.c
 - code_0x009.c
 - lab8.jpg
 - prime.exe

```
code_0x004.c > ...
1  #include<stdio.h>
2  #include<stdlib.h>
3  #include<string.h>
4
5  int calculate(int n){ int prime=1;
6      for(int loop = 2; loop < n; loop++) {
7          if((n % loop) == 0) {
8              prime = 0;
9          }
10     }
11
12     if (prime == 1){
13         printf("\n-----");
14         printf("\n %d is prime number.\n", n);
15         printf("-----\n");
16     }
17     else{
18         printf("\n-----");
19         printf("\n %d is not a prime number.\n", n);
20         printf("-----\n");
21     }
22 }
23
24 int main() {
25     int n;
26     printf("Enter a Number Prime For Cheking ==>");
27     scanf("%d",&n);
28     calculate(n);
```

Administrator: Code Overflow

```
" Rafsan@coder >>g++ code_0x004.c -o prime
" Rafsan@coder >>prime
Enter a Number Prime For Cheking ==>1
-----
1 is prime number.
-----
" Rafsan@coder >>prime
Enter a Number Prime For Cheking ==>5
-----
5 is prime number.
-----
" Rafsan@coder >>prime
Enter a Number Prime For Cheking ==>6
-----
6 is not a prime number.
-----
" Rafsan@coder >>
```

prime >> code_0x004.c

code_0x008.c > ...

```
1  #include<stdio.h>
2  #include<stdlib.h>
3
4  void reverse(int a)
5  {
6      int rev = 0;
7      while(a!=0)
8      {
9          rev = (rev*10)+(a%10);a /= 10;
10     }
11     printf("\n-----\n[+] Reverse Number is ==>%d \n",rev);
12 }
13
14 int main()
15 {
16     int num; scanf("%d",&num,printf("Enter Number for Reverse==>"));
17     reverse(num);
18 }
19
20
```

Administrator: Code Overflow

```
" Rafsan@coder >>g++ code_0x008.c -o reverse
" Rafsan@coder >>reverse
Enter Number for Reverse==>123456789
-----
[+] Reverse Number is ==>987654321
" Rafsan@coder >>reverse
Enter Number for Reverse==>123
-----
[+] Reverse Number is ==>321
" Rafsan@coder >>reverse
Enter Number for Reverse==>321
-----
[+] Reverse Number is ==>123
" Rafsan@coder >>
```

Reverse >> code_0x008.c

```
code_0x001.c > gcc code_0x001.c -o sqr

Rafsan@coder >>sqr
Enter Number ==>2
-----
Sqr==>4

Rafsan@coder >>sqr
Enter Number ==>12
-----
Sqr==>144

Rafsan@coder >>sqr
Enter Number ==>144
-----
Sqr==>20736

Rafsan@coder >>
```

Sqr >> code_0x001.c


```
code_0x003.c > gcc code_0x003.c -o swap

Rafsan@coder >>swap
Enter num 1==>21
Enter num 2==>69
-----
[+]Before Swapping
[*]First integer = 21
[*]Second integer = 69
-----
[+]After Swapping
[*]First integer = 69
[*]Second integer = 21

Rafsan@coder >>
```

Swap >> code_0x003.c

```
code_0x009.c × code_0x001.c code_0x002.c code_0x005.c code_0x008.c
EXPLORER
OPEN EDITORS
code_0x009.c
code_0x001.c M
code_0x002.c M
code_0x005.c M
code_0x008.c
LABS
submit
code_0x001.c M
code_0x002.c M
code_0x003.c
code_0x004.c
code_0x005.c M
code_0x006.c
code_0x007.c
code_0x008.c
code_0x009.c
lab8.jpg
OUTLINE
submit
code_0x001.c M
code_0x002.c M
code_0x003.c
code_0x004.c
code_0x005.c M
code_0x006.c
code_0x007.c
code_0x008.c
code_0x009.c
lab8.jpg
code_0x009.c > DecimalToBinary(int)
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 void DecimalToBinary(int decimal)
5 {
6     long tempDecimal = decimal;
7     char binary[65]; int index=0;
8     while(tempDecimal!=0)
9     {
10         binary[index] = (tempDecimal % 2) + '0';
11         tempDecimal /= 2;
12         index++;
13     }
14     binary[index] = '\0';
15     strrev(binary);
16     printf("\n-----\n");
17     printf("\nDecimal value = %ld\n", decimal);
18     printf("Binary value of decimal = %s \n", binary);
19 }
20 void BinaryToDecimal(int n )
21 {
22     long int i, x=0,a;
23     printf("\n-----\n");
24     printf("\n[+]Binary value is = %ld\n", n);
25     for(i=0;n!=0;++i)
26     {
27         a=n%10;
28         x=(a)*(pow(2,i))+x;
29         n=n/10;
30     }
31     printf("[+]Decimal value of Binary ==> %ld \n",x);
32 }
33 int main()
34 {
35     int select;
36     printf("\n-----\n1) Convert Decimal To Binary \n2) Convert Binary To Decimal\n -----");
37     scanf("%d",&select,printf("Enter Your Choise==>"));
38     if (select ==1){
39         long decimal ;
40         scanf("%ld", &decimal,printf("Enter any decimal value ==>: "));
41         DecimalToBinary(decimal);}
42     if (select == 2)
43     {
44         long int n;
45         scanf("%ld",&n,printf("Enter any binary number:====> "));
46         BinaryToDecimal(n);
47     }
48 }
49 else
50 {
51     printf("[#####]Error!!!!");
52     main();
53 }
54
55 }
```

 Administrator: Code Overflow

```
" Rafsan@coder >> B_to_D
-----
1) Convert Decimal To Binary
2) Convert Binary To Decimal
-----
Enter Your Choise==>1
Enter any decimal value ====>: 20
-----

Decimal value = 20
Binary value of decimal = 10100

" Rafsan@coder >> B_to_D
-----
1) Convert Decimal To Binary
2) Convert Binary To Decimal
-----
Enter Your Choise==>2
Enter any binary number:====> 10100
-----

[+]Binary value is = 10100
[+]Decimal value of Binary ==> 20

" Rafsan@coder >>
```

BinToDec && DecToBin >> code_0x009.c