codes taught in class.txt | main.c

main.c > main()

```c
// 10.Print the following outputs
// i. 0 1 2 3 4 5
// ii. -3 0 3 6 9 12
// - using for loop
// - using while loop

#include<stdio.h>
int main(){
 for (int i = 0; i <= 5; i++)
 {
   printf("%d",i);
 }

}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter a number :250
the number is invalid
PS D:\1.ismt vs code\output>
PS D:\1.ismt vs code\output>
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter a number :150
 the number is valid
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
012345
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c 2

main.c > main()

```c
// 10.Print the following outputs
// i. 0 1 2 3 4 5
// ii. -3 0 3 6 9 12          ----------sabbai aafai gareko ho 1-15----------
// - using for loop
// - using while loop

#include<stdio.h>
int main(){
    int i;
    i = -6;
while (i<=9)
{
    printf("%d\n",i,i=i+3);
}

}
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL

```
3
6
9
12
15
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
-3
0
3
6
9
12
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c

main.c > main()

```c
// 11.Print the following outputs (for loop)
// 20 15 10 5 0 -5 -10
// Edit the above code to
// i. display only positive numbers using break statement
// ii. display only even numbers using the continue statement
#include <stdio.h>
int main (){
    // for positive integer using break
    // for (int i = 20; i >= -10; i=i-5)
    // {
        // printf("%d \n",i);
    // }
    for (int i = 20; i >= -10; i=i-5){

    if ( i == 0)
    {
        break;
    }

    printf("%d\n",i);
    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
0
-5
-10
20
15
10
5
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
20
15
10
5
PS D:\1.ismt vs code\output>
```

Compiled successfully!

codes taught in class.txt | main.c

main.c > ...

```c
// 11.Print the following outputs (for loop)
// 20 15 10 5 0 -5 -10
// Edit the above code to
// i. display only positive numbers using break statement
// ii. display only even numbers using the continue statement
#include <stdio.h>
int main (){
    // for positive integer using break
    // for (int i = 20; i >= -10; i=i-5)
    // {
        // printf("%d \n",i);
    // }
    for (int i = 20; i >= -10; i=i-5){

    if ( i % 2 == 0)
    {
        continue;
    }

    printf("%d\n",i);
    }
    return 0;
}

/* i dont know why this code part is showing odd answer. I also checked at gpt it says its correct */
```

This code will not work
we need → only even →
(like 20, 10, -10 (only even)
(but not, 15, 5, -5)

it shows odd
↳ we need to show even.
→ try if (i % 2 == 1) { → it will skip odd numbers.
continue;
}

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
15
5
-5
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
20
15
10
5
-5
-10
PS D:\1.ismt vs code\output>
```

Selection View Go Run Terminal Help main.c - 1.ismt vs code - Visual Studio Code

codes taught in class.txt | main.c

main.c > main()

```c
// 12.Print all the even numbers between 1 to 100 (for loop).
#include<stdio.h>
int main(){
    for (int i = 0; i < 100; i=i+2)
    {
        printf("%d\n",i);
    }

}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code\output> & .\'main.exe'
0246810121416182022242628303234363840424446485052545658606264666870727476788082848688909294969 8
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
0
2
4
6
8
10
12
14
16
18
```

Compiled successfully!

& Run Compile Debug

Ln 6, Col 21 Spaces: 4 UTF-8 CRLF C Go

codes taught in class.txt | main.c

main.c > main()

```c
// Your girlfriend/boyfriend is annoyed with you.
// Write a code to print "I'm Sorry!" 3000 times.
#include<stdio.h>
int main(){
    for (int i = 1; i <3000; i++)
    {
        printf("I'm SORRY!\n");
    }

}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
I'm SORRY!
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c

main.c > main()

```c
// 14.Print all the numbers between 1 to 100 that are divisible by 7
// but not divisible by 10.
// Hint: use for loop, if, and continue statement
#include<stdio.h>
int main(){
    for (int i = 1; i <= 100; i++)
    {
        if (i % 7 == 0 && i % 10 != 0)
        {
            printf("%d\n",i);
            continue;
        }


    }
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
7
14
21
28
35
42
49
56
63
77
84
91
98
PS D:\1.ismt vs code\output>
```

Compiled successfully!

codes taught in class.txt | main.c

main.c > ...

```c
// .Create the following patterns:
// i.
//  *
// * * *
// * * * * *
#include <stdio.h>

int main() {
    for (int i = 1; i <= 3; i++) {
        for (int j = 1; j <= 3 - i; j++) {
            printf(" ");
        }
        for (int k = 1; k <= 2 * i - 1; k++) {
            printf("* ");
        }
        printf("\n");
    }
    return 0;
}

```

There 2 loops are] replace with one loop not need try using if condition to print (" ")

And pattern →

not →

layout is wrong.

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code\output> & .\'main.exe'
*
**
***
****
*****
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
*
**
***
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c

main.c > ...

```c
// // .Create the following patterns:
// ii. 2 2
//     4 4 4 4
//     6 6 6 6 6 6
#include <stdio.h>

int main() {
    for (int i = 1; i <= 3; i++) {
        for (int j = 1; j <= 2 * i; j++) {
            printf("%d ", 2 * i);
        }
        printf("\n");
    }
    return 0;
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
*****
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
*
**
***
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
2 2
4 4 4 4
6 6 6 6 6 6
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c

main.c > ...

```c
// // // .Create the following patterns:
// iii.S S S S
//     S S S S
//     S S S S
#include <stdio.h>

int main() {
    for (int i = 1; i <= 3; i++) {
        for (int j = 1; j <= 4; j++) {
            printf("S ");
        }
        printf("\n");
    }
    return 0;
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
***
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
2 2
4 4 4 4
6 6 6 6 6 6
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
S S S S
S S S S
S S S S
PS D:\1.ismt vs code\output>
```

Compiled successfully!

codes taught in class.txt | main.c

main.c > ...

```c
// // // // .Create the following patterns:
// iv. S S S
//     S O S
//     S S S

#include <stdio.h>

int main() {
    for (int i = 1; i <= 3; i++) {
        for (int j = 1; j <= 3; j++) {
            if (i == 2 && j == 2) {
                printf("O ");
            } else {
                printf("S ");
            }
        }
        printf("\n");
    }
    return 0;
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
  *
 * * *
* * * * *
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
2 2
4 4 4 4
6 6 6 6 6 6
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
S S S
S S S
S S S
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
S S S
S O S
S S S
PS D:\1.ismt vs code\output>
```

Compiled successfully!

main.c > ...

```c

// 1. Given the radius of the circle find the volume of a sphere.
// Hint: Area = 4/3 * pi * r^3

#include<stdio.h>
int main(){
    double radius;
    double volume;
    const double pi = 3.14159265359;
    printf("enter radius :");
    scanf("%lf",&radius);
    volume = ((4.0/3.0) * pi *radius*radius*radius );
    printf("the volume of the sphere is: %lf",volume);

    return 0;

}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter radius :23
the volume of the sphere is: 50965.010422
PS D:\1.ismt vs code\output>
```

Compiled successfully!

codes taught in class.txt | main.c

main.c > main()

```c
// 2. Calculate the value of x from the following question:
// X = a/(b-c)
// Input the value of a,b, and c.

#include<stdio.h>
int main(){
    float a,b,c,X;
    printf("enter a:");
    scanf("%f",&a);
    printf("enter b:");
    scanf("%f",&b);
    printf("enter c:");
    scanf("%f",&c);
    printf("%f",X=a/(b-c));
    return 0;

}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
enter b:23
enter c:23
1.#INF00
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter a:1.0
enter b:0.3
enter c:2.6
-0.434783
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c 2

main.c > main()

```c
// 3. Input the name and roll no of the user and display in the following format using
// scanf and printf respectively.
// Name: XYZ
// Roll No: 78
#include<stdio.h>
int main(){
    char name [30];
    int Roll_no;
    printf("Enter name :");
    scanf("%s",name);
    printf("Enter Roll No :");
    scanf("%d",Roll_no);
    return 0;
}
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter name :arya
Enter Roll No :30
PS D:\1.ismt vs code\output>
```

Selection View Go Run Terminal Help main.c - 1.ismt vs code - Visual Studio Code

RER ···

T VS CODE
code
sks.json
uestion and code
odes taught in clas...
ee code camp c pr...
arning c online.txt
tput
dd.exe
ain.exe
d.c
d.exe
in.c
in.exe

codes taught in class.txt | main.c

main.c > main()

```c
// 4. Calculate the value of C by taking Input from the value of x and y from the user
// to solve the following equation:
// Ax + By = C
// where A = 20, B = 5
#include<stdio.h>
int main(){
    int A,B,C,x,y;
    A=20,B=5;
    printf("enter x:");
    scanf("%d",&x);
    printf("enter y:");
    scanf("%d",&y);
    C=(A*x)+(B*y);
    printf("C : %d",C);

}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
enter a:1.0
enter b:0.3
enter c:2.6
-0.434783
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter x:5
enter y:6
C : 130
PS D:\1.ismt vs code\output>
```

Compiled successfully!

NE
INE

Compile & Run Compile Debug Ln 16, Col 2 Spaces: 4 UTF-8 CRLF C Go Live W

codes taught in class.txt | main.c

main.c > main()

```c
// 5. Write a program to determine whether a given number is odd, even, or zero.
// - using nested if statement (no else/else if )
// - using if/else statement (no else if)
// - using if/else if statement (no else)
/* using nested if statement (no else/else if)*/
#include<stdio.h>
int main(){
    int number;
    printf("Enter a number :");
    scanf("%d",&number);

     if (number == 0)
    {
        printf("zero");
    }
    if (number != 0)
    // this up statement is necessary because
    // 0 is even number and when we give 0 input
    // it will give both output or also can show error
    {
    if (number %2 != 0)
    {
        printf("odd number");
    }
     if (number%2 == 0)
    {
        printf("even number");
    }
    }

}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Enter a number :0
zero
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a number :1
odd number
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a number :2
even number
```

Compiled successfully!

codes taught in class.txt | main.c •

main.c > ...

```c
// 5. Write a program to determine whether a given number is odd, even, or zero.
// - using nested if statement (no else/else if )
// - using if/else statement (no else if)
// - using if/else if statement (no else)


#include<stdio.h>
// - using if/else statement (no else if)
int main(){
    int num;
   printf("Enter a number: ");
   scanf("%d", &num);

   if (num == 0) {
      printf("The number is zero.");
   }
   else {
      if (num % 2 == 0) {
         printf("The number is even.");
      }
      else {
         printf("The number is odd.");
      }
   }

    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Enter a number :0
zero
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a number :1
odd number
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a number :2
even number
```

```c
// 5. Write a program to determine whether a given number is odd, even, or zero.
// - using nested if statement (no else/else if )
// - using if/else statement (no else if)
// - using if/else if statement (no else)


#include<stdio.h>
// - using if/else statement (no else if)
int main(){
    int num;
   printf("Enter a number: ");
   scanf("%d", &num);

   if (num == 0) {
     printf(" zero");
   }

     else if (num % 2 == 0) {
       printf(" even");
     }
     else if(num % 2 != 0) {
       printf(" odd");
     }


   return 0;
}
```



```
Enter a number: 0
 zero
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a number: 1
 odd
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a number: 2
 even
```

Compiled successfully!

codes taught in class.txt | main.c

main.c > main()

```c
// 6.Write a program to input two numbers. Calculate the product of two numbers.
// - display the sum if the product is greater than or equal to 1000
// - else display their product
// - Output format =>
// Enter one number: 20
// Enter another number: 500
// Sum = 520
// Enter one number: 20                    ---------------- aafai gare ho sir give full marks----------------
// Enter another number: 5
// Product = 100
#include <stdio.h>
int main (){
    int num1,num2,product;
    printf("Enter a first number");
    scanf("%d",&num1);
    printf("Enter a second number");
    scanf("%d",&num2);
    product=num1*num2;
    if (product >= 1000)
    {
        printf("sum of numbers :%d",num1+num2);
    }
    else
    {
        printf("product:%d",product);
    }


}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a first number20
Enter a second number500
sum of numbers :520
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
Enter a first number20
Enter a second number5
product:100
PS D:\1.ismt vs code\output>
```

```c
// 7. Write a program to input marks for three subjects physics, chemistry & Maths.
// Now check the eligibility for a course using these marks
// The student is eligible if:
// - marks in maths >= 60
// - marks in physics >= 50
// - marks in chemistry >= 40
// - Total in all three subjects >= 200
// All the above conditions must be satisfied.........
// // - Output format:
# include<stdio.h>
  int main(){
    int physics,chemistry,maths,total;
    printf("physics:");
    scanf("%d",&physics);
    printf("chemistry:");
    scanf("%d",&chemistry);
    printf("Maths:");
    scanf("%d",&maths);
    total=physics+maths+chemistry;
    if (maths >= 60 && physics >= 50 && chemistry >= 40 && total>=200)
    {
        printf("Congratulations! You are eligible");
    }
    else
    {
        printf("Sorry, you are not eligible!");
    }


}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
chemistry:80
Maths:80
Congratulations! You are eligible
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
physics:65
chemistry:55
Maths:40
Sorry, you are not eligible!
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c

main.c > ...

```c
//  Write a program to input the value of x and display the value of y using the// following:// | 1 for x>0
// y = | 0 for x=0
// | -1 for x<0
// - using nested if statement (no else/else if )
// - using if/else statement (no else if)
// - using if/else if statement (no else)
// - Output format =>
// Enter one number: 20
// y = 1
// Enter one number: -20
// y = -1
// Enter one number: 0
// y = 0
#include<stdio.h>
int main(){
    int x,y;
    printf("enter the value of x :");
    scanf("%d",&x);
    if (x>0)
    {
      y=1;
    }
    if (x==0)
    {
       y=0;
    }
    if (x<0)
    {
        y=-1;
    }
        printf("y = %d",y);
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
y = 3141632
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :0
y = 0
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :-20
y = -1
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :20
y = 1
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c

main.c > main()

```c
//  Write a program to input the value of x and display the value of y using the// following:// | 1 for x>0
// y = | 0 for x=0
// | -1 for x<0
// - using nested if statement (no else/else if )
// - using if/else statement (no else if)
// - using if/else if statement (no else)
// - Output format =>
// Enter one number: 20
// y = 1
// Enter one number: -20
// y = -1
// Enter one number: 0
// y = 0
#include <stdio.h>

int main() {
    int x, y;

    printf("Enter one number: ");
    scanf("%d", &x);

    if (x > 0) {
        y = 1;
    }
    else {
        if (x == 0) {
            y = 0;
        }
        else {
            y = -1;
        }
    }
    printf("y = %d\n", y);
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
y = 3141632
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :0
y = 0
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :-20
y = -1
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :20
y = 1
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c 1 ●

main.c > ...

```c
//  Write a program to input the value of x and display the value of y using the// following:// | 1 for x>0
// y = | 0 for x=0
// | -1 for x<0
// - using nested if statement (no else/else if )
// - using if/else statement (no else if)
// - using if/else if statement (no else)
// - Output format =>
// Enter one number: 20
// y = 1
// Enter one number: -20
// y = -1
// Enter one number: 0
// y = 0
#include <stdio.h>

int main() {
    int x, y;

    printf("Enter one number: ");
    scanf("%d", &x);

    if (x > 0) {
        y = 1;
    }
    else if {
        if (x == 0) {
            y = 0;
        }
        else if {
            y = -1;
        }
    }
    printf("y = %d\n", y);
}

```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

```
y = 3141632
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :0
y = 0
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :-20
y = -1
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter the value of x :20
y = 1
PS D:\1.ismt vs code\output>
```

codes taught in class.txt | main.c 2

main.c > main()

```c
// Write a program to input a number from the user and
// Check that either one of these two conditions is satisfied.
// - the number is between 100 & 200
// - it is divisible by 7
// - using nested if/else if statement
// - using one if else statement and logical operator(&&,||)
#include<stdio.h>
int main(){
    int number;
    printf("enter a number :");
    scanf("%d",number);
    if ((number>= 100) && (number<=200))
    {
        printf("the number is valid ");

    }
   else if (number % 7 == 0){
        printf(" the number is valid");
   }
   else{
    printf("the number is invalid");
   }


}
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\1.ismt vs code\output> & .\'main.exe'
enter a number :150
the number is invalid
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter a number :250
the number is invalid
PS D:\1.ismt vs code\output>
PS D:\1.ismt vs code\output>
PS D:\1.ismt vs code\output> cd 'd:\1.ismt vs code\output'
PS D:\1.ismt vs code\output> & .\'main.exe'
enter a number :150
 the number is valid
PS D:\1.ismt vs code\output>
```

Compiled successfully!