Practice While Loop 1 (Date: 01-06-2021)

Write program for following descriptions, first three are solved for your understanding:

a. Write a program to print numbers 1 to 20 in single line?

```
int main(){
   int c = 1;
   while (c <= 20){
        printf ("%d ", c);
        c = c + 1;
   }
   printf ("\n");//After printing 1 to 20 move to next line return 0;
}</pre>
```

b. Write a program to print numbers 1 to 5 in separate lines?

```
int main(){
   int t = 1;
   while (t <= 5){
        printf ("%d\n", t);
        t = t + 1;
   }
   return 0;?
}</pre>
```

c. Write a program to print numbers 10 to 20 in single line and 20 to 10 in single line?

```
int main(){
   int count = 10;
   while (count <= 20){
        printf ("%d ", count);
        count = count + 1;
   }
   printf ("\n");//Move to next line
   count = 20;//Initialize variable to start with 20
   while (count >= 10){
        printf ("%d ", count);
        count = count - 1;
   }
   printf ("\n");
   return 0;
}
```

- d. Write a program to print numbers -1 to -20 in a single line?
- e. Write a program to print following output, using while loop:

```
11 2112 22
```

13 23

14 24

14 24

15 25

Hint: You may do it with single variable, in print statement use %d two times and print x+10 **or u**se two variables, initialize one variable with 11, second with 21, increment both by 1; however; condition can be placed on any variable (No need to put condition on both variables)

f.	Write a program to print following output, using while loop:
	11 25
	12 24 13 23
	14 22
	15 21
	Hint: Use two variables, initialize one variable with 11, second with 25, increment first by 1, decrement second by 1; again condition on first variable is sufficient.
g.	Write a program to print following output, using while loop:

	<pre>Hint: Same as first program but instead of printing number, print star i.e. printf("*");</pre>
h.	Write a program to print following output, using while loop:
	*
	*
	*
	*
	*
	*
	*
	*
	Hint: Same as second program but instead of printing number, print star i.e.
	<pre>printf("*\n");</pre>
i.	Write a program to print following output, using while loop:

	<pre>Hint: Same as first program but instead of printing number, print star i.e. printf("*");</pre>