ESET 269 Assignment #3

1) You are writing a program that needs to repeatedly print the current count, increment the count, and check if the count has reached a maximum value entered by the user. This should continue as long as the count is less than the maximum value.

Which loop should you use to implement this?

- A) while loop
- B) do-while loop
- C) either while or do-while loop
- 2) Why does the following switch statement produce a syntax error?

```
char *command = "start";
                                Strings are not allowed as the switch
 switch(command) {
                                quantity in C++ so a syntax error occurs.
  case "start":
   printf("Starting...\n");
   break;
  case "stop":
   printf("Stopping...\n");
   break;
  default:
   printf("Invalid command\n");
 }
3) What will happen when the following code is executed?
#include <stdio.h>
int main() {
 int i;
 for (i = 0; i < 10; i++) {
  if (i == 5) {
   break;
  printf("%d\n", i);
 return 0;
```

- A. The code will print the numbers from 0 to 9.
- B. The code will print the numbers from 0 to 4.
- C. The code will print the numbers from 5 to 9.
- D. The code will not print anything.
- 4) Write a C program to print multiples of 3 or 5 present in 1 to 50 using a while loop.
- 5) Write a C program which takes integers 1 to 7 from the user and prints the day of the week for a given number(Use switch-case).
- 6) What are the minimum and maximum index values of an array with 100 elements in C?
 - a. 1 and 100 b. 0 and 100
 - c. 1 and 99 d. 0 and 99
- 7) X is an array of 6 elements, and Y is an array of 20 elements. Which code will assign the value of the 4th element of X to the last element of Y?

```
a.x[4]=y[20]
b.x[3]=y[20]
c.x[19]=y[3]
d.x[3]=y[19]
```

8) Fill in the following code according to the comments

- 9) Write a program that: has an empty array of size 5. Prompt user to enter values to store in the array. Print the final array. Use For loop in your code.
- 10) Given the following 2D array, write a while loop to replace each value in last row to -10.

```
float array[2][3]={{2,0.2,1},{3,9,1}}}
int main()
  int x=0;
  float array[2][3]=\{(2,0.2,1),(3,9,1)\};
  float m = -10.00;
  while (x<3)
     array[1][x] = m;
     X++;
  printf("%.2f\n",array[0][0]);
  printf("%.2f\n",array[0][1]);
  printf("%.2f\n",array[0][2]);
  printf("%.2f\n",array[1][0]);
  printf("%.2f\n",array[1][1]);
  printf("%.2f\n",array[1][2]);
  return 0;
}
```