Question 1

```c
#include <stdio.h>
int test_pw()
{
        char pin[10];
        int x = 15, i;
        printf("Enter password:");
        gets(pin);
        for (i = 0; i < 10; i += 2) x = (x & pin[i]) | pin[i+1];
        if (x == 48)  return 0;
        else
        return 1;
}

void main()
{
        if (test_pw()) printf("Fail!\n");
        else printf("You win!\n");
}
```

Aim : Try to exploit the program and get the output as "You win"

Question 2

```c
#include<stdio.h>
#include<stdlib.h>
#include<string.h>

int  main(int argc, char  **argv)
{
        char buf[64];
        gets[buf];
}
```

Aim : Try to exploit this vulnerable program to spawn a shell

Things to remember :
i) Create a linux virtual machine and use it for the exploitation process.
ii) Need a detailed report including steps and screenshots on how you exploited the vulnerable program. Also include the exploit code.