***ACM Write Up***

*GENERAL SKILLS*

**Wave a flag**

In my terminal I ran the given program by typing ./warm and then typed ./warm -h to get more information regarding the file, it displayed the flag.

I learned how to run a program in terminal and get more information regarding the file

**Nice netcat...**

I ran the command given in the description of the task in terminal and I got many numbers. I thought it might be ASCII values. I went into this site: <https://www.duplichecker.com/ascii-to-text.php> to convert ASCII values to text, then after conversion I got the flag.

I learned how to convert ASCII values into text

*Cryptography*

**Mod 26**

I searched for ROT13 in google, I went to this site: <https://www.dcode.fr/rot-13-cipher> and pasted the text given in the description of the task over there and decrypted it. So I got the flag after decrypting.

I learned many types of ROT ciphers and to decrypt something using it

**Mind your Ps and Qs**

I searched for RSA decryption in google and got into this site: <https://www.dcode.fr/rsa-cipher> where I pasted the values of C,E and N according to the file given in description of the task and when tried to decrypt it, I got the flag.

Learned more about RSA decryption

*Forensics*

**Information**

I used exiftool in terminal to get the details of the image given. I found that in license part of the details it was some text so I tried to decode it online. I decoded it in this site: <https://www.base64decode.org/> and the flag was available after decoding

Learned to use exiftool command in terminal and get the details of given file

### **Matryoshka doll**

As in the description of the task Matryoshka doll is a doll inside which another doll can be found and goes on, we need to unbox each doll which we find inside the doll. So I thought of extracting the image multiple times to get the flag. I used binwalk –e command to extract files from the image. After using the command 4-5 times I got a file named as flag.txt, inside the file flag was given

Learned to use binwalk command in terminal and extract files