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Couse : Cyber Security &
Ethical Hacking

PROJECT_1

Project_Aim: A Python program to Encrypt and Decrypt the data by implementing own Techniques and Ideas.

Source Code:

Encryption:

```
#ENCRYPTION ALGORITHM_By_Aysha
txt=input(“Enter the Message:”)
new_txt=""
key=4
for i in txt:
    value=ord(i)
    if(value%2==0):
        values=value+1+key
    else:
        values=value-1+key
    char=chr(values);
    new_txt+=char
print(“Encrypted message:”,new_txt)
```

output:

```
Enter the Message:}tHiS_is_T0 + TeSt--YoU{
Encrypted message:€yMlVblvbY5%.%YhVy00\rX~
```

Decryption:

```
#DECRYPTION ALGORITHM_By_Aysha
txt=input(“Enter the Message to decrypt:”)
new_txt=""
key=4
for i in txt:
    value=ord(i)
    if(value%2==0):
```

```
        values=value+1-key
    else:
        values=value-1-key
    char=chr(values);
    new_txt+=char
print("Actual Message: "new_txt)
```

output:

```
Enter the Message to decrypt:€yMlVblvbY5%.%YhVy00\rX~
Actual Message: }tHiS_is_T0 + TeSt—YoU{
```

Result:

Screenshot of Encryption:

```
In [1]: #ENCRYPTION ALGORITHM_by_Aysha
        txt=input("Enter the Message: ")
        new_txt=""
        key=4
        for i in txt:
            value=ord(i)
            if(value%2==0):
                values=value+1+key
            else:
                values=value-1+key
            char=chr(values);
            new_txt+=char
        print("Encrypted message:",new_txt)

        Enter the Message: }tHiS_is_T0 + TeSt--YoU{
        Encrypted message: yMlVblvbY5%.%YhVy00\rX~
```

Screenshot of Decryption:

```
In [2]: #DECRYPTION ALGORITHM_by_Aysha
        txt=input("Enter the Message to decrypt: ")
        new_txt=""
        key=4
        for i in txt:
            value=ord(i)
            if(value%2==0):
                values=value+1-key
            else:
                values=value-1-key
            char=chr(values);
            new_txt+=char
        print("Actual message: ",new_txt)

        Enter the Message to decrypt:  yMlVblvbY5%.%YhVy00\rX~
        Actual message:  }tHiS_is_T0 + TeSt--YoU{
```