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Ans 1 (1) SQL Injections - is a type of web application security vulnerability in which an attacker attempts to use application code to access or corrupt database content.

(2) Cross site scripting (XSS) targets an application users by injecting code, usually a client-side script such as Javascript, into a web application output.

(3) Cross-site Request Forgery is a malicious attack where a user is tricked into performing an action he or she didn't intend to do.

(4) Security Misconfiguration encompasses several types of vulnerabilities all centered on a lack of maintenance or a lack of attention to the web application configuration.

Akash

⑤ Insecure direct object references is when a web application ~~express~~ exposes a reference to an internal implementation object.

~~Handwritten signature~~

Q2

Alcan

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>
```

```
main()
```

```
{
```

```
int i, j, len, len2, numstr[100], numkey[100],
    numcipher[100];
```

```
char str[100], key[100], cipher[100];
```

```
printf("Enter a string to encryption\n");
```

```
gets(str);
```

```
for (i=0; j=0; i < strlen(str); i++)
{
```

```
if (str[i] != ' ')
```

```
{
```

```
str[j] = toupper(str[i]);
```

```
j++;
```

```
}
```

```
str[j] = '\0';
```

```
for (i=0; i < strlen(str); i++)
```

```
{
```

```
numstr[i] = str[i] - 'A';
```

```
}
```

```
printf("Enter key string of random text\n");
```

```
gets(key);
```

```
for (i=0; j=0; i < strlen(key); i++)
```


Ans)
if (key[i] != '\0')

key[i] = '\0';
for (i = 0; i < strlen(key); i++)

numkey[i] = key[i] - 'A';

for (i = 0; i < strlen(str); i++)

numcipher[i] = numstr[i] + numkey[i];

for (i = 0; i < strlen(str); i++)

if (numcipher[i] > 25)

numcipher[i] = numcipher[i] - 26;

printf("One Time Pad ~~cipher~~ text is \n");
for (i = 0; i < strlen(str); i++)

printf("%c", (numcipher[i] + 'A'));

printf("\n");

C:\Users\ACER\Desktop\info.cpp - [Executing] - Dev-C++ 5.11

File

C:\Users\ACER\Desktop\info.exe

Enter a string text to encrypt

i am here

Enter key string of random text

chaddaji

One Time Pad is

KHMKHRN

Process exited after 26.37 seconds with return value 0

Press any key to continue . . .

56

}

57

printf("\n");

58

}

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Hand

Q.4 Passwords are a set of strings provided by users at the authentication prompts of web accounts. Although passwords still remain as one of the most secure methods of authentication available to date, they are subjected to a number of security threats when mishandled. The role of password management comes in handy there. Password management comes is a set of principles and best practices to be followed by users while storing and managing passwords in an efficient manner to secure passwords as much as they can to prevent unauthorized access.

Four online password managers are :-

- 1- Avira password manager - offers unlimited devices, plus an intuitive interface, well-functioning auto saving and auto-filling capability.

2 - LastPass - offers unlimited password storage on multiple devices choose either desktop devices or mobile devices.

3 - Sticky Password - Saves unlimited passwords and work with lots of browsers. Provides USB portability and biometric login.

4 - Bitwarden - Unlimited password storage, multi-device sync, but challenging interface.

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