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Subject Name - Information Security Lab

Subject Code - PBC - 601

Q4 =>

```
#include <stdio.h>
#include <conio.h>
#include <stdlib.h>

char a[27] = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i',
             'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's',
             't', 'u', 'v', 'w', 'x', 'y', 'z'};

int ind[27];
int code[10], i, j;
char in[10], temp, out[10];

int main() {
    clrscr();
    printf("please enter input plaintext");
    for (i=0; i<10; i++)
    {
        scanf("%c", &temp);
        if (temp == 32 || temp == '\n')
        {
            continue;
        }
        else
        {
            in[i] = temp;
        }
    }
}
```

```
for (i=0; i<10; i++)
```

```
{
```

```
    for (j=0; j<27; j++)
```

```
    {
```

```
        if (in[i] == a[j])
```

```
        {
```

```
            rnd[j] = rand() % 100;
```

```
        }
```

```
    }
```

```
}
```

```
    for (j=0; j<27; j++)
```

```
    printf ("In Random generated key : %d", rnd[j]);
```

```
for (i=0; i<10; i++)
```

```
{
```

```
    for (j=0; j<27; j++)
```

```
    {
```

```
        if (rnd[j] != 0)
```

```
        {
```

```
            code[i] = (in[i] + rnd[j]) % 26;
```

```
        }
```

```
    }
```

```
}
```

```
for (i=0; i<10; i++)
```

```
{    for (j=0; j<27; j++)
```

```
    {    if (code[i] == j)
```

```
        {    out[i] = a[j];
```

```
        }    }
```

```
printf (" Encrypted message : ");  
for (i=0; i < 10 ; i++)  
{  
    print ( "%c" , out[i] );  
}  
getch();  
return 0;  
}
```

Wibhan