

8.	A	<p>Design a python program to implement RSA Algorithm.</p> <pre>from Crypto.PublicKey import RSA from Crypto.Cipher import PKCS1_OAEP  key = RSA.generate(2048) public_key = key.publickey()  cipher = PKCS1_OAEP.new(public_key) encrypted = cipher.encrypt(b'Hello RSA')  cipher = PKCS1_OAEP.new(key) decrypted = cipher.decrypt(encrypted)  print("Encrypted:", encrypted) print("Decrypted:", decrypted.decode())</pre>		
	B	<table><tr><td><pre>gets #include &lt;stdio.h&gt; #include &lt;string.h&gt; int main() {     void vulnerable();     vulnerable();     return 0; }  void vulnerable() {     char buffer[20];     int passcheck = 0;     printf("Enter the password: ");     gets(buffer);     if (strcmp(buffer, "nikhil123") == 0) {         printf("Access Granted\n");         passcheck = 1;     } else {         printf("Wrong password\n");     } }  if (passcheck) {     printf("You are allowed to work\n"); } }</pre></td><td><pre>Fgets #include &lt;stdio.h&gt; #include &lt;string.h&gt;  int main() {     char password[16];     int passcheck = 0;      printf("Enter the password: ");     fgets(password, sizeof(password), stdin);     password[strcspn(password, "\n")] = '\0';      if (strcmp(password, "nikhil123") == 0) {         printf("Access Granted\n");         passcheck = 1;     } else {         printf("Wrong password\n");     } }  if (passcheck) {     printf("You are allowed\n"); }  return 0; }</pre></td></tr></table>	<pre>gets #include &lt;stdio.h&gt; #include &lt;string.h&gt; int main() {     void vulnerable();     vulnerable();     return 0; }  void vulnerable() {     char buffer[20];     int passcheck = 0;     printf("Enter the password: ");     gets(buffer);     if (strcmp(buffer, "nikhil123") == 0) {         printf("Access Granted\n");         passcheck = 1;     } else {         printf("Wrong password\n");     } }  if (passcheck) {     printf("You are allowed to work\n"); } }</pre>	<pre>Fgets #include &lt;stdio.h&gt; #include &lt;string.h&gt;  int main() {     char password[16];     int passcheck = 0;      printf("Enter the password: ");     fgets(password, sizeof(password), stdin);     password[strcspn(password, "\n")] = '\0';      if (strcmp(password, "nikhil123") == 0) {         printf("Access Granted\n");         passcheck = 1;     } else {         printf("Wrong password\n");     } }  if (passcheck) {     printf("You are allowed\n"); }  return 0; }</pre>
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