NAME = RACHANA - SHARMA

Page No = 1

FATHERNAME = PAWAN KUMAR

PAPER NAME = INFORMATION SECONTY
& CYBER LAWS

UNIVERSITY ROLL No = 1022752

PAPER CODE =

CLASS ROLL No = 42

COURSE = BSC. IT

SEM= 6th Sem

Que 5 WACP to implement playfairs ciphes for plain text "go with the Flow" with key "key".

> #include estation hs

include cstdlib. h>

include LString. h>

define SIZE 30

void to Lower Case (choor plain [], int ps)

inti;

for (i=o', icps'; i++)

3

if (plain Ci)>64 & Plain [i] <91)

Plain (i) += 32;

3

3

int nemoveSpaces (chas # plain, int ps)

4

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Page No = 2
NAME = RACHANA -SHARMA
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ROLL No = 1022752 (42)
 int i, count = 0;
 for (i=o; icps; i++)
  if (plain Ci)!=")
  Plain [count ++] = plain[i];
  Plain [count ++) = plain[i];
   Plain [cound] = 1/01;
   return and;
 3
 Void generatekeyTable (chas key [], int ks, chas theyT
  (5) (5)
 int i, j, K, Flag = 0, *dicty;
   dicty = (int *) calloc (26, Sizeof (int));
   for (i=o/ickg/i++)
    if ( Key (i)! = 'j')
    dicty [reg (i) -97) =2;
   dicty ['j'-97] = 1;
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NAME = RACHANA - SHARMA
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ROLL NO= 1022752 (42)
 for (K=0 ; KLKS; K++)
  it (dicty [key [k] -93] == 2)
    dicty [key CK] -97] = 1;
     KeyT [i] [i] = Key [K);
     j++',
     i+(j==5)
    3 1++1
      j=0;
  3
  for (K=0; K < 26; K++)
   it (dicty (N) ==0)
   KeyT[i][j] = (char)(k+97);
    j++;
    if (j == 5)
    3 1++ ;
```

Page No = 3

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NAME = RACHANA -SHARMA Page No = 4 COURSE = BSC. IT (6th sem) ROLL No = 1022752 (42) J=0; 3 3 void search (chas key [65] (5), chas a, chas b, int are () int 1,5; if (a = = 'j') a = 'i'; else 1 (6 == (j1) b= (71; fos (1=0 /125/1++). 5 for (j=0) j 45 j ++) if KeyTCi]Ci]==a) 8 ars Co) = 1 j ars CD = j/

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NAME = RACHANA-SHARMA
COURSE = BSC. IT (6th scm)
ROLLNO = 1022752 (42)
 elseit ( Key T Ci) Ci) == b)
    ours (3) = ; "
 3
inte mod 5 (inta)
 setusn (a %5);
  intPrepare (chas Sts C), int ptss)
  if (ptns % 2!=0)
  3
Stn (ptons ++) = '2';
   Sta (ptas) = 10;
  return ptrs;
  3
```

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Page No= 5

Page Xo = 6 NAME = RACHANA -SHARNA ROLL NO = 1022752 (42) void encrypt (chas Stac), Chas Key T (5) (5), int ps) int i, a Cy); for (1-0; 12PS /1+=2) Scorch (Key T, Stati), Statil), a); if (a Co) = = a (2)) Sta Ci) = Key T (a Co) Cmod5 (a CD + 1)]; Sta (iti) = Key T (a Co) (mod 5 a Ca) + 1)); 3 else if a (1) == a (3)) ξ sta (i) = key T [mod 5 (a (a) + j) (a (i)); STR (i+1) = Key T (mod 5 (a (2) + D) (a (D)) 3 else sta (i) = key T [a Co] [a Ca]); Sta Ci+D = KeyT [a C2] [a CQ); Sig nature void enought By play fais ciphos (chas Sts CD, chas KesCD) chas PS, KS, Key TC5) C50; KS = Strlen (Key); Kg = x en . Ne spaces (Ney, as); PS = Stalen (Sta); to lowercage (Str, PS); PS = senove spaces (str, ps); PS = Psepase (Sts, PS); generatekey Table (Key, 1/8, Key T); encoupt (Str, Key T, PS); ind main() chas Str CSIZED, Key CSIZED; Stacky (key, "key"); Print ("key text: %s \n', key); Stropy (Stro, "go with the flow"); Print ("Plain text: %5/h",5+8); encrypt By plany tais ciphes (star, Key); Paint ("Ciphes text: %S/n",Sta); returno;

Signature

Page No=7

ey text: key lain text: go with the flow ipher text: hnumzozoydmixu		
rocess exited after 0.02521 so ress any key to continue	econds with return value 0	