Name-Chircordeep Bonik. Emol-20063176 Sec-A.

Accept an Integer NUM from the user and display its address and value. using the pointer methodologies.

Include (stdio.h)

void prûnt_aiddr (înt* ptr) {

prûntf ("Enter an integere: ");

Scant ("%d", ptr);

prûntf ("Address: %p Value: %d in "pin);

9nt num;
9nt ptre = Lenum;
poûnt addre (ptri);

console with show the prison

- -> Intere on Integere: 13
- > Address: 0x7ffe498e5ccq Value: 13

mails lact

8.2 Implement on pointer to an annual to display all the annual elements alongside the addresses.

It include (staio.th)

void paint ann (int len) of annual comments and annual comments

for (int == 0; jxlen; j++) du boo and prûntt ("Address: %p Value: "Adin", iphrti),

void main()/
int nums,
print! ("Enten the length of the annay: ");
scant ("".d", L. num);
print_ann (num);

tome who wanted

Inter the length of the annay: 3

-> Enten the array clements: 1 2 13

Address: 0x7HH0900cbe0 value: 1

Address: 0x7fff0990 cbe 9 value: 2

Address: Ox7fff0490cbe 8 Value: 13.

Sis Accept an array of integer ARRI from the user to implement a call by reference and find the sum of the odd number and even numbers. seperately.

Include (stdio.th)

9nt odd_sum (9nt*arc, 9nt arciength) 1 and odd-sum=0;

for (9nt 220; 2xan-length; 1++)d

9t (*(anc+1)%2 |=0)1

odd.sum == #(anc+1);

Hetaan odd-sum;

```
even sum ("int" are, "int and length) d
    int even-sumeo
     for (int i=0; ix an-length; i++)d
         19 + (* (an+i) 1, 2 == 0) 1
         evensum += *(arti);
     The even of the even numbers to 2.
     Hellith even-sum;
See the see an aminim of size and and t
display the elements away splinion biov
   ant ann-length;
    print ("Entra the length of the armay ; "");
    scanf ("%d", Latter length); it show blow
    and and Tand-length ]; (0=) +1) not
     paint + ("Entra the element of the array:");
     for (9nt i=0; Exank-length; i++)d.
          sanf ("% 2" , Lanneill;
    paintf ("The sum of the odd numbers is 9.d/n;
                         odd_sum (onr, ann-length));
    printf (" The sum of the even numbers . 5, % d \n",
                         even_sum (ann, ann_length));
    STATE OF STATE SHOWS
```

console (Atomolino the months) muzingua ithis

- > Enter the length of the armay: 3
- Inten the elements of the array: 1213
- The sum of the odd numbers 93 14
 The sum of the even numbers 93 2
- S.A Design a 2D matrix of size 4x4 and display the elements using postition to array
- # Include (stdio.th)

 void make matrix (int * ptt) d

 ton (int i=0; ix4; i+t) d

 printi ("Enter the values of idth How",

 ton (int i=0; ix4; it+)d

 cant ("xd", (ptr+1" + ti));

 gant ("xd", (ptr+1" + ti));

paints (" the own of the euro number of 1) I thing

```
void display-matrix ("int " ptr) if
     point ("The elements of the matrix are:");
     ton (int i=0 ; ix 16; i++) d.
          7 (17.4==0)d
              pointf ("\n");
          print (19. d", *(ptn+i));
     prant f ("\n") 3
 void main () of
      ant an[4][4];
      entablu = 8 autologs
       make-matrix (ptr);
       display_matrix (ptr);
Console
 -) Inter the values of 1th now:
                               1 2 34
 > Enter the values of 2th now:
                               23 45
- Enter the values of 3th now: 3 4 56
 > Enter the values of 9th now: 4567
 the elemenh of the matrix are;
    23 45
    3456
    4567
```