3rd assignment of c programing.

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Section or lab: 8

Electrical communication engineering.

Code 1

```
#include <stdio.h>
#include <stdlib.h>
int main()
  int num1, x, y, z, i;
  printf("please enter a +ve number\n");
  scanf("%d",&num1);
  while(num1<0){
    printf("please enter a +ve number not a -ve one\n");
    scanf("%d",&num1);
  }
  x=num1;
  y=1;
  for (i=1;i<=x;i+=2){
```

```
z=i/y;
                                                            if (z==y){
                                                                                              printf("%d\n",i);
                                                                                         y++;
                                                               }
                             return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    - 0 ×
main.c - Code::Blocks 16.01
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please enter a +ve number

Output

Description

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                                                                                                                                                                                                                          Checking for existence: C:\Users\Mohamed ibrahem\Desktop\c projects\assignment3-1\main.exe
Executing: "C:\Program Files (x86)\CodeBlocks/cb_console_nuner.exe" "C:\Users\Mohamed ibrahem\Desktop\c projects\assignment3-1\main.exe" (in 'C:\Users\Mohamed_altrahem\Desktop\c projects\assignment3-1\main.exe")

Go to Settings to activate Windows
```

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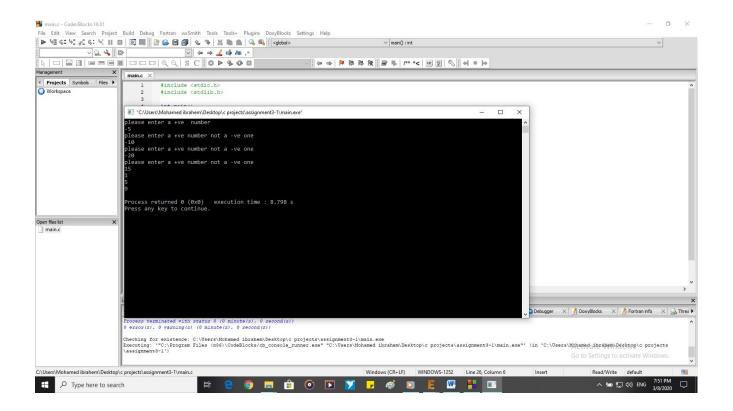
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}

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Code 2:-

```
#include <stdlib.h>

int main()

{

    int x, y, z, w, a, b, c, d, i, j;

    printf("we have an equation here we just need you to enter its coefficients\n");

    printf("the equation is a*(x*x)-b*(y*y*y)-c*(z)=d*(w*w) \n");

    printf("so please enter a \n");

    scanf("%d",&a);
```

#include <stdio.h>

```
printf("so please enter b \n");
scanf("%d",&b);
printf("so please enter c \n");
scanf("%d",&c);
printf("so please enter d \n");
scanf("%d",&d);
j=1;
for (x=1; x<=20; ++x)
{
  for (y=1; y<=20; ++y)
  {
    for ( z=1; z<=20; ++z)
    {
       for ( w=1; w<=20; ++w)
         {
         if (a*(x*x)-b*(y*y*y)-c*(z)==d*(w*w))
         {
           printf("Solution%d: x=%d y=%d z=%d w=%d\n",j,x,y,z,w);
           j++;
```

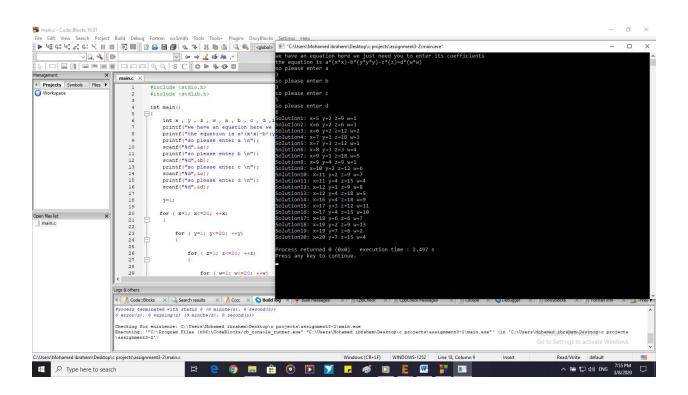
```
}

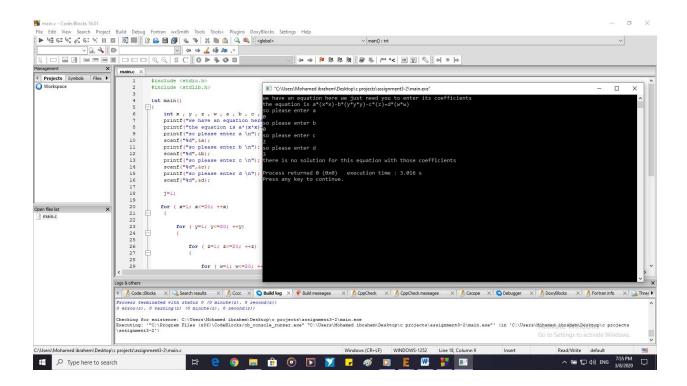
}

if(j==1){
  printf("there is no solution for this equation with those coefficients\n");
}

return 0;
```

}





Code 3:-

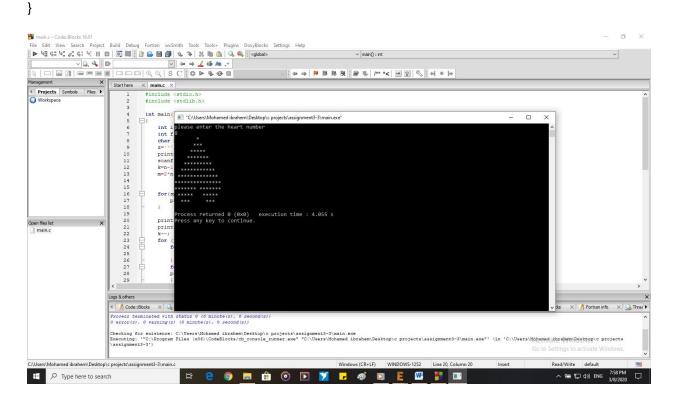
```
#include <stdio.h>
#include <stdlib.h>

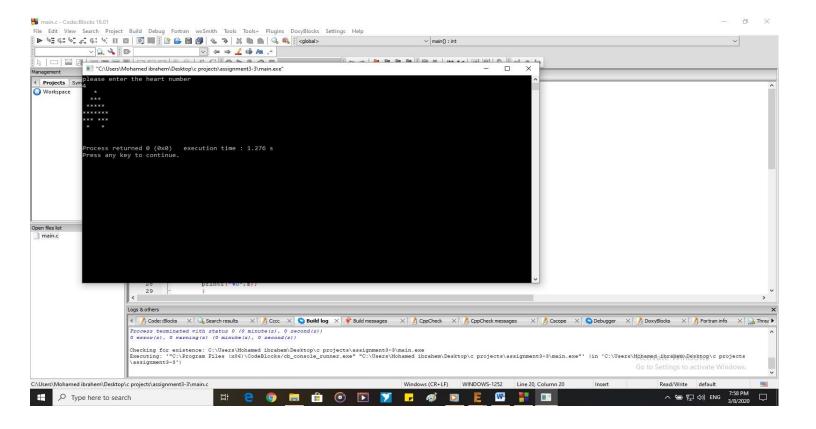
int main()
{
    int i , n , m,j,k,l,h , space;
    int f;
    char z;
    z='*';
    printf("please enter the heart number\n");
    scanf("%d",&n);
```

```
k=n-1;
m=2*n-1;
for(space=k;space>0;space--){
  printf(" ");
}
printf("%c",z);
printf("\n");
k--;
for (j=3;j<=m;j+=2){
  for(space=k;space>0;space--){
    printf(" ");
  }
  for (i=0;i<j;i++){
  printf("%c",z);
  }
printf("\n");
k--;
}
k=n-1;
for (I=0;I<3;I++){
```

```
for(space=0;space<1;space++){</pre>
       printf(" ");
      }
    for (i=0;i< k;i++){}
       printf("%c",z);
  for(space=0;space<(I+1);space++){</pre>
       printf(" ");
    }
    if(l==1){
      printf(" ");
    }
    if(l==2){
       printf(" ");
    }
  for (i=0;i< k;i++){
    printf("%c",z);
    }
printf("\n");
k-=2;
}
```

return 0;





Code 4: the bonus one:D

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

int main()
{
   int x , i , h,k,l ,a,space;
   printf("please enter the number of the pattern\n");
   scanf("%d",&x);
   k=x/2;
```

for(space=k;space>0;space--){

```
printf(" ");
  }
for (h=0;h<(x/2);h++){}
  printf("**");
  printf(" ");
  }
k--;
for(i=0;i<(x/2-1);i++){
  printf("\n");
    for(space=k;space>0;space--){
         printf(" ");
      }
  k--;
  printf("**");
  }
printf("\n");
  for(i=0;i<(x/2+1);i++){
    printf("**\n");
    }
```

```
for(l=1;l<=(x/2-1);l++){
     for(space=1;space++){
      printf(" ");
      }
    printf("**");
    if(I==(x/2-1)){}
      for(a=0;a<(x/2-1);a++){
        printf(" ");
        printf("**");
      }
    }
    printf("\n");
  }
  return 0;
}
```

