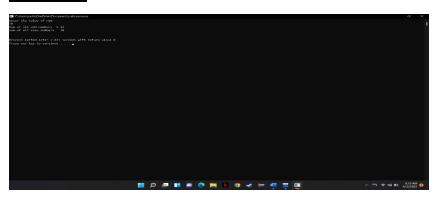
1)Write the program to find sum of odd and even?

```
#include <stdio.h>
    Int main()
{
    int i,num, odd_sum= 0, even_sum=0;

printf("Enter the value of num\n");
    scanf("%d", &num);
    for (i = 1; i <= num; i++)
    {
        if (i % 2 == 0)
            even_sum = even_sum + i;
        else
            odd_sum = odd_sum + i;
    }
    printf("Sum of all odd numbers = %d\n", odd_sum);
    printf("Sum of all even numbers = %d\n", even_sum);
}</pre>
```

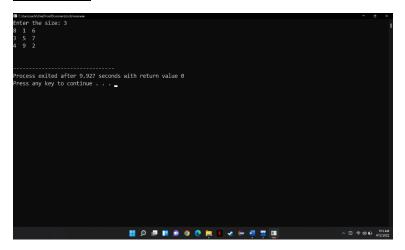


### 2) Find output of following program?

```
#include <stdio.h>
int magicsq(int, int [][10]);
int main( ){
   int size;
  int a[10][10];
   printf("Enter the size: ");
   scanf("%d", &size);
  if (size \% 2 == 0){
     printf("Magic square works for an odd numbered size\n");}
   else{
     magicsq(size, a);}
   return 0;}
 int magicsq(int size, int a[][10]){
  int sqr = size * size;
  int i = 0, j = size / 2, k;
  for (k = 1; k \le sqr; ++k) {
     a[i][j] = k;
     i--;
     j++;
if (k \% \text{ size} == 0) {
        i += 2;
        --j; }
     else {
        if (j == size) {
j = size;
        else if (i < 0)
          i += size; \} \}
```

```
for (i = 0; i < size; i++){
  for (j = 0; j < size; j++){
    printf("%d ", a[i][j]);}
  printf("\n");}
printf("\n");}</pre>
```

#### **OUTPUT**



3)Write a program to find the root of quadratic equation?
#include<stdio.h>
#include<math.h>
int main()
{
 int a,b,c,disc;
 float x,y;
 printf("enter coefficient of x^2,x and constant terms:\n");
 scanf("%d%d%d",&a,&b,&c);
 disc=b\*b-4\*a\*c;
 if(disc>0){

```
printf("roots are equal and distinct\n");
    x=-b+sqrt(disc)/(2*a);
    y=-b-sqrt(disc)/(2*a);
    printf("\nroots are:%f%f",x,y);
    }
else if(disc==0){
    printf("both roots are equal\n");
    x=-b/(2.0*a);
    y=-b/(2.0*a);
    printf("root is %f%f",x,y);
}
Else
    printf("both roots are imaginary");
    return 0;
```

4) Write a program to find the digits in any number using do while loop?

```
#include<stdio.h>
int main()
{
    int n,i,count;
    printf("enter number\n");
    scanf("%d",&n);
    do{
        n=n/10;
        count++;
    }while(n!=0);
    printf("digits are=%d",count);
    return 0;
}
```

```
5)Find the output?
#include<stdio.h>
int main()
{
    int n,reverse=0,remainder;
    printf("enter a interger:");
    scanf("%d",&n);
    while(n!=0){
        remainder=n%10;
        reverse=reverse*10+remainder;
        n/=10;
    }
    printf("reversed number=%d",reverse);
    return 0;
}
```

```
enter a interger:28
reversed number=82

Process exited after 8.889 seconds with return value 0
Press any key to continue . . .
```

# **DISCUSSION AND CONCLUSION**

# Program 1

> I found that int must be used instead of void.

# Program 2

> I found that int must be used instead of void.

Program 3, Program 4, Program 5 was error free.