# HAMMAD MURTAZA SID: 11146 OS LAB 1

# **Q1:**

### CODE:

```
#include<stdio.h>
int main()
{
    int first_num, second_num;
    int multiply;
    float divide;

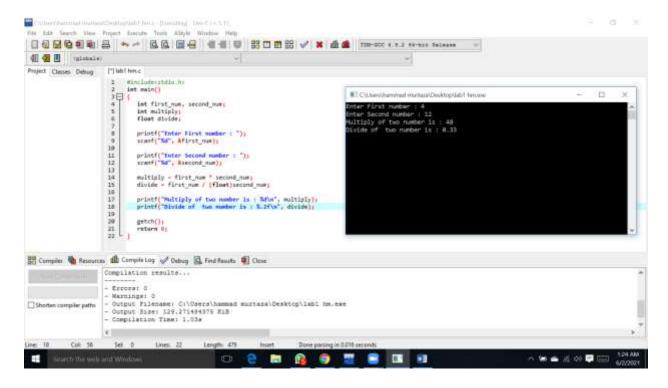
    printf("Enter First number : ");
    scanf("%d", &first_num);

    printf("Enter Second number : ");
    scanf("%d", &second_num);

multiply = first_num * second_num;
    divide = first_num / (float)second_num;
```

```
printf("Multiply of two number is : %d\n", multiply);
printf("Divide of two number is : %.2f\n", divide);
getch();
return 0;
```

## **SCREENSHOT:**



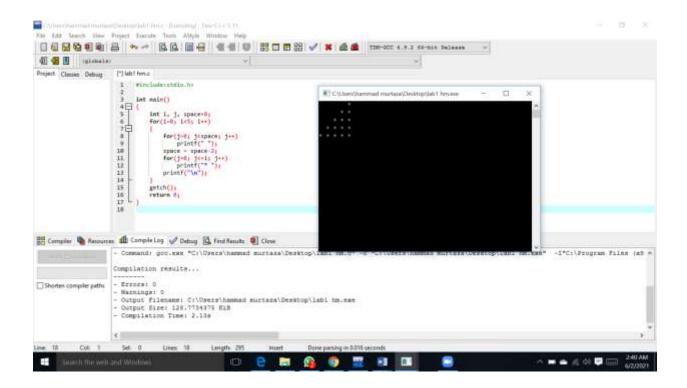
**Q2**:

**CODE:** 

#include<stdio.h>

```
int main()
{
    int i, j, space=8;
    for(i=0; i<5; i++)
    {
        for(j=0; j<space; j++)
            printf(" ");
        space = space-2;
        for(j=0; j<=i; j++)
            printf("* ");
        printf("\n");
    }
    getch();
    return 0;
}</pre>
```

# **SCREENSHOT:**



# **Q3:**

### CODE:

#include<stdio.h>

```
int main()
{
  int a[10][10], b[10][10], mult[10][10], r1, c1, r2, c2, i, j, k;
  printf("Enter rows and column for first matrix\n");
  scanf("%d%d",&r1, &c1);

printf("Enter rows and column for second matrix\n");
  scanf("%d%d",&r2, &c2);
```

```
while (c1!=r2)
{
  printf("Error! column of first matrix not equal to row of second.\n\n");
  printf("Enter rows and column for first matrix\n ");
  scanf("%d%d", &r1, &c1);
  printf("Enter rows and column for second matrix: ");
  scanf("%d%d",&r2, &c2);
}
printf("\n**Enter elements of matrix 1** \n");
for(i=0; i<r1; ++i)
for(j=0; j<c1; ++j)
{
  printf("Enter elements a%d%d: ",i+1,j+1);
  scanf("%d",&a[i][j]);
}
printf("\n**Enter elements of matrix 2** \n");
for(i=0; i<r2; ++i)
```

```
for(j=0; j<c2; ++j)
{
  printf("Enter elements b%d%d: ",i+1,j+1);
  scanf("%d",&b[i][j]);
}
for(i=0; i<r1; ++i)
for(j=0; j<c2; ++j)
 mult[i][j]=0;
}
for(i=0; i<r1; ++i)
for(j=0; j<c2; ++j)
for(k=0; k<c1; ++k)
{
  mult[i][j]+=a[i][k]*b[k][j];
}
printf("\no utput Matrix:\n");
for(i=0; i<r1; ++i)
```

```
for(j=0; j<c2; ++j)

{
    printf("%d",mult[i][j]);

    if(j==c2-1)

    printf("\n\n");
}
return 0;</pre>
```

# **SCREENSHOT:**

