NATIONAL UNIVERSITY
of Computer & Emerging Sciences

Course: CL1002 – Programming Fundamentals Lab.

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Department of Computer Science

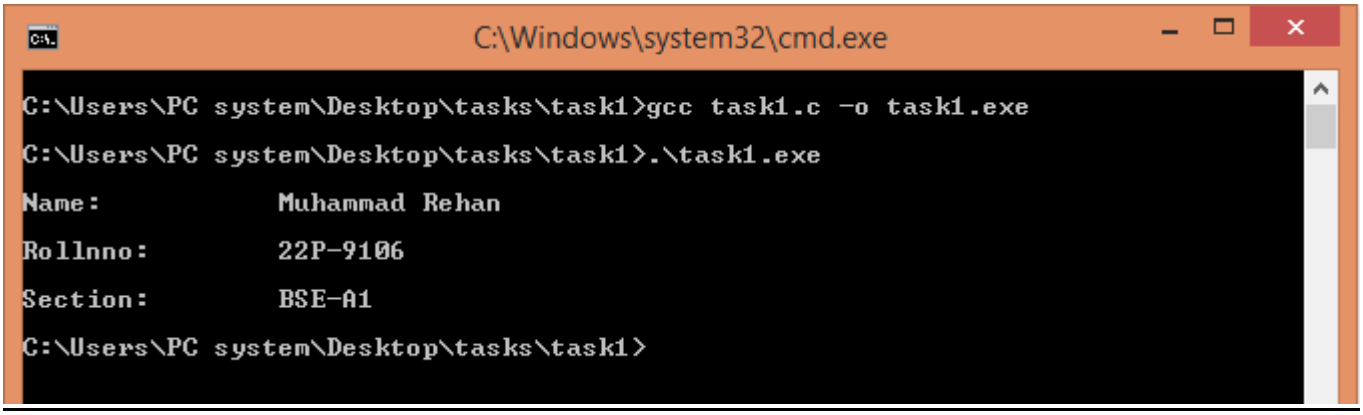
Exercise 01

Problem 01: Write a C program to print your name, roll no and section in separate lines.

Code:

```
#include <stdio.h>
int main()
{
printf("\nName:\t\tMuhammad Rehan\n\nRollnno:\t22P-9106\n\nSection:\tBSE-A1\n");
return 0;
}
```

Screenshot:

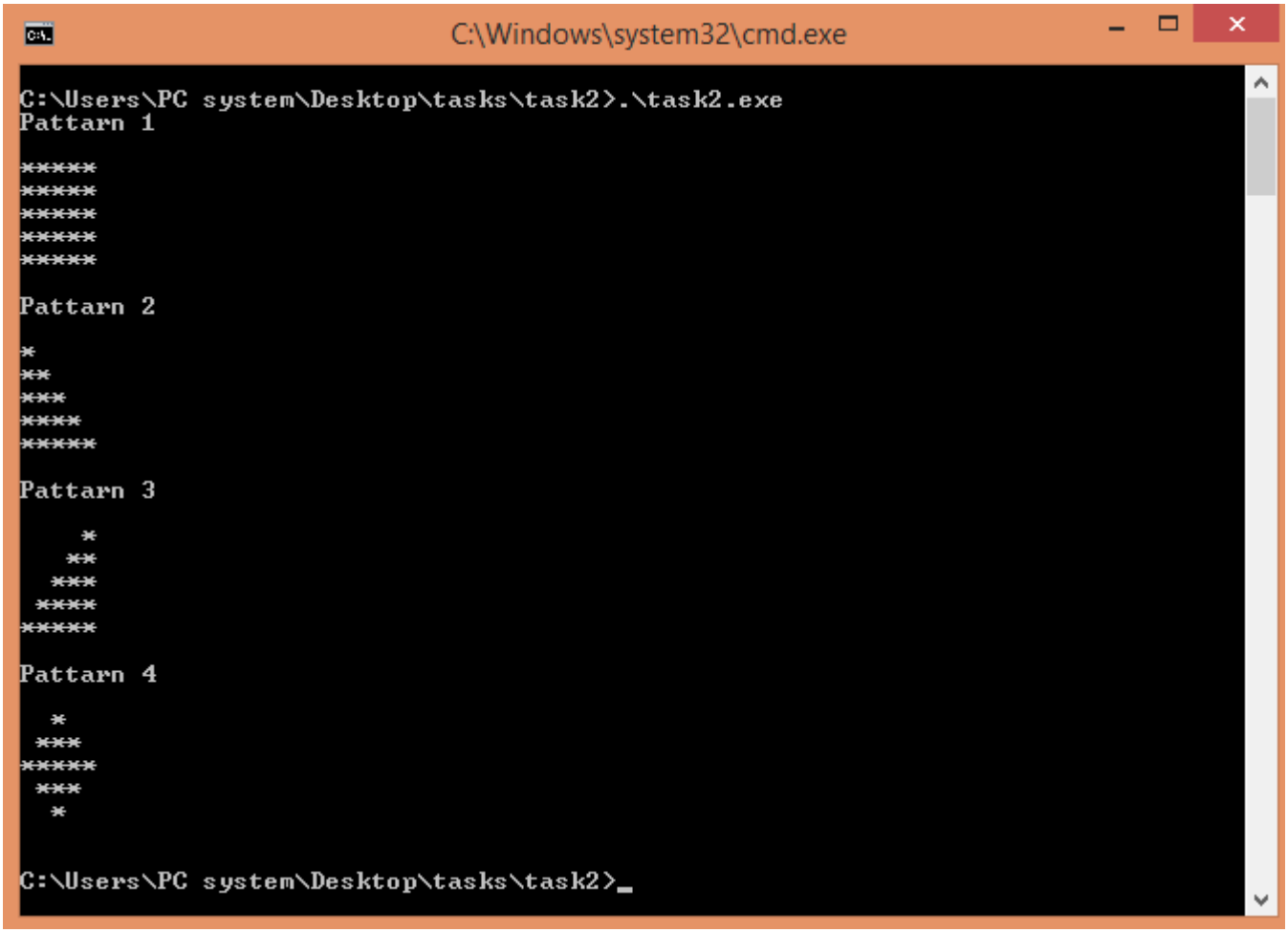


Problem 02: Write a program that prints the following patterns using printf statement.

Code:

```
#include <stdio.h>
int main()
{       printf("Pattarn 1\n\n*****\n*****\n*****\n*****\n*****\n\n");
        printf("Pattarn 2\n\n*\n**\n***\n****\n*****\n\n");
        printf("Pattarn 3\n\n    *\n   **\n  ***\n ****\n*****\n\n");
        printf("Pattarn 4\n\n  *  \n *** \n*****\n *** \n  *  \n\n");
        return 0; }
```

Screenshot:

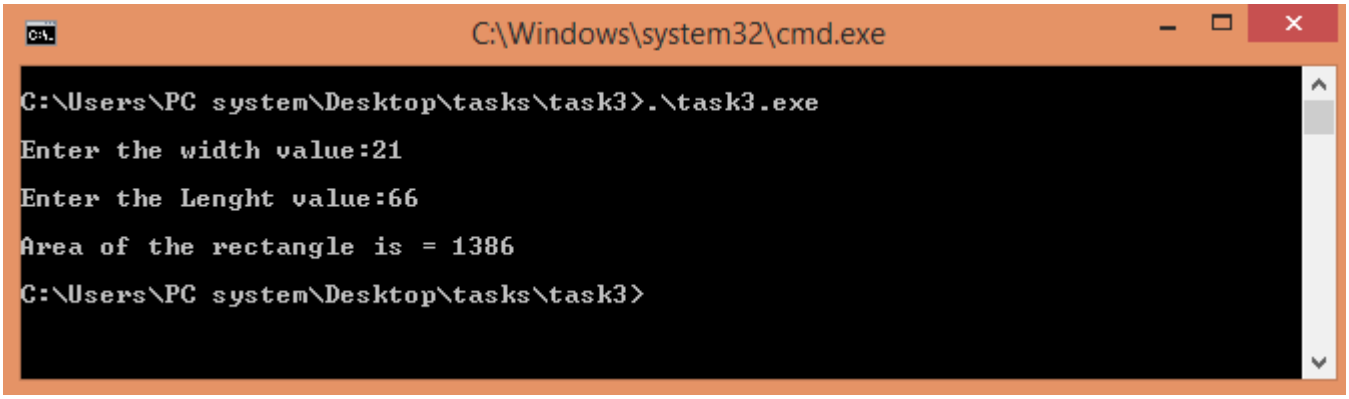


Problem 03: Write a program that calculates the area of a rectangle and print the result on screen.

Code:

```
#include <stdio.h>
int main()
{       int W;
        int L;
        printf("\nEnter the width value:");
        scanf("%d",&W);
        printf("\nEnter the Lenght value:");
        scanf("%d",&L);
        int area= W*L;
        printf("\nArea of the rectangle is = %d\n",area);     return 0; }
```

Screenshot:

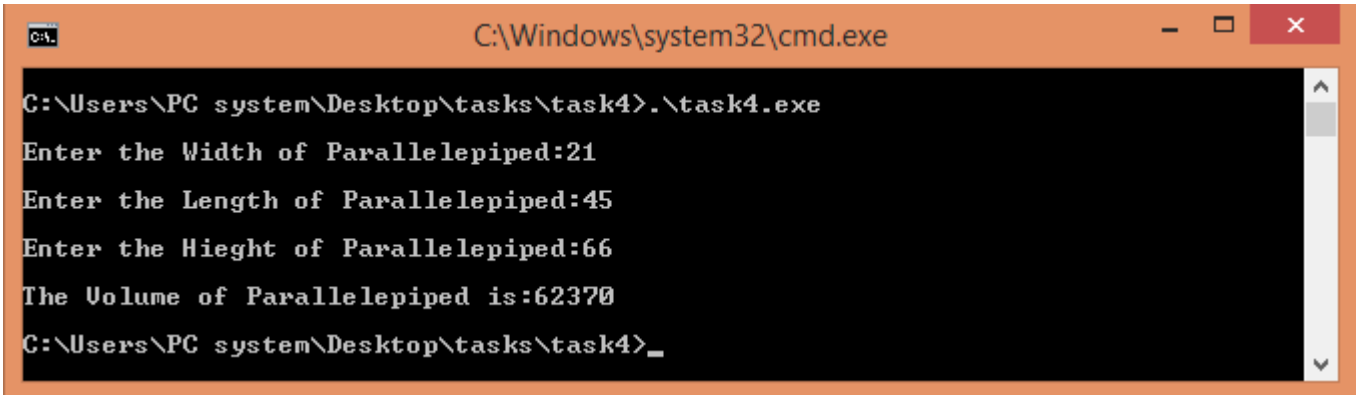


Problem 04: Write a program that takes the length, width and height of a parallelepiped from user and finds its volume.

Code:

```
#include <stdio.h>
int main()
{
  int Width;
  int Length;
  int Hieght;
  printf("\nEnter the Width of Parallelepiped:");
  scanf("%d",&Width);
  printf("\nEnter the Length of Parallelepiped:");
  scanf("%d",&Length);
  printf("\nEnter the Hieght of Parallelepiped:");
  scanf("%d",&Hieght);
  int volume = Width*Length*Hieght;
  printf("\nThe Volume of Parallelepiped is:%d\n",volume);
  return 0; }
```

Screenshot:


C:\Windows\system32\cmd.exe
C:\Users\PC system\Desktop\tasks\task4>.\task4.exe
Enter the Width of Parallelepiped:21
Enter the Length of Parallelepiped:45
Enter the Hieght of Parallelepiped:66
The Volume of Parallelepiped is:62370
C:\Users\PC system\Desktop\tasks\task4>