



Name : Khizar Ali

Roll No: 22P-9269

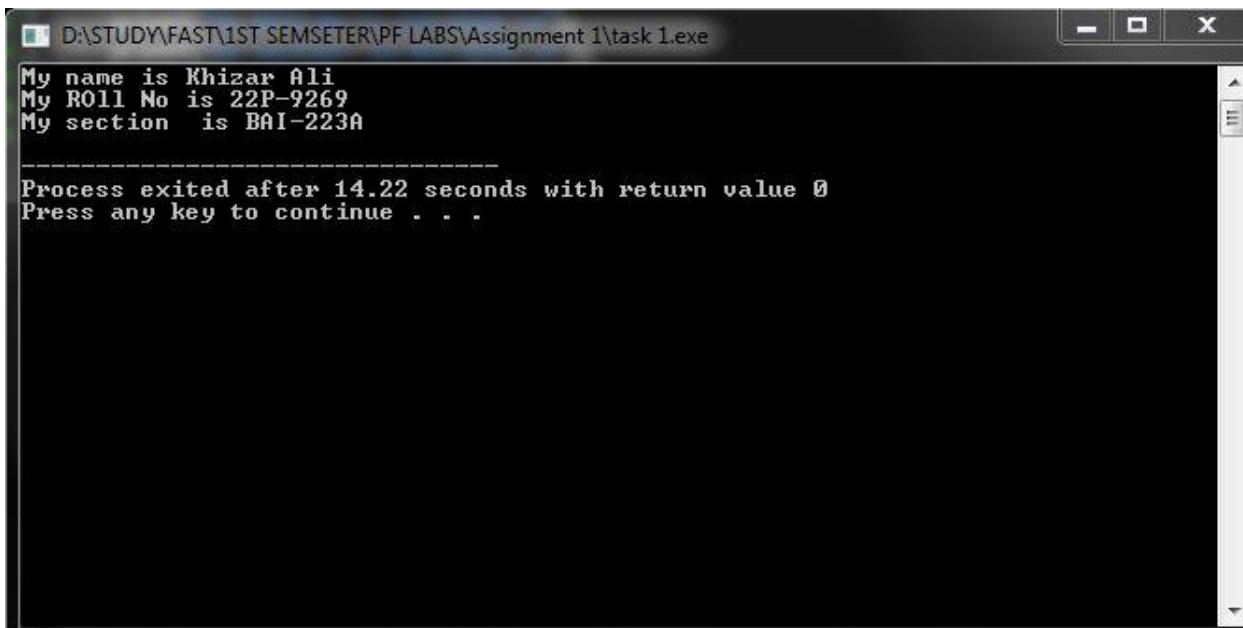
Subject: PF LAB

**Problem: 1**

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

```
#include<stdio.h>

int main()
{
    printf("My name is Khizar Ali \n");
    printf("My ROLL No is 22P-9269 \n");
    printf("My section is BAI-223A \n");
    return 0;
}
```



```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\Assignment 1\task 1.exe
My name is Khizar Ali
My ROLL No is 22P-9269
My section is BAI-223A

-----
Process exited after 14.22 seconds with return value 0
Press any key to continue . . .
```

**Problem: 2**

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

```
#include<stdio.h>

int main()
{
    printf("Pattern 1 \n\n");
    printf("***** \n");
    printf("***** \n");
    printf("***** \n");
}
```

```
printf("***** \n");  
printf("***** \n\n\n");
```

```
printf("Pattern 2 \n\n");  
printf("* \n");  
printf("** \n");  
printf("*** \n");  
printf("**** \n");  
printf("***** \n");  
printf("***** \n\n\n");
```

```
printf("Pattern 3 \n\n");  
printf("  * \n");  
printf("  ** \n");  
printf(" *** \n");  
printf(" **** \n");  
printf("***** \n\n\n");
```

```
printf("Pattern 4 \n\n");  
printf("  * \n");  
printf(" *** \n");  
printf("***** \n");  
printf(" *** \n");  
printf("  * \n\n\n");
```

```
return 0;
```

```
}
```

```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\Assignment 1\task 2.exe
Pattern 1
*****
*****
*****
*****
*****

Pattern 2
*
**
***
****
*****

Pattern 3
  *
 **
***
****
*****

Pattern 4
  *
 ***
****
 ***
  *
```

### Problem: 3

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

The formula to calculate the Area is given below.

```
#include<stdio.h>

int main()
{
    float l, w ,Area ;
    printf("Enter legth of rectangle \n");
    scanf("%f",&l);
    printf("Enter width of rectangle \n");
    scanf("%f",&w);
    Area = w * l ;
    printf ("The area of rectangle is %.2f \n",Area);
    return 0;
}
```

```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\Assignment 1\area of rectangle.exe
Enter legth of rectangle
3
Enter width of rectangle
5
The area of rectangle is 15.00
-----
Process exited after 25.82 seconds with return value 0
Press any key to continue . . .
```

#### Problem: 4

Write a program that takes the length, width and height of a parallelepiped and finds its volume. The formula to calculate the volume is given below.

Volume = length \* width \* height

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

```
int main()
```

```
{
```

```
    float length , width , hight , volume ;
```

```
    printf("Enter length \n");
```

```
    scanf("%f",&length);
```

```
    printf("Enter width \n");
```

```
    scanf("%f",&width);
```

```
    printf("Enter hight \n");
```

```
    scanf("%f",&hight);
```

```
    volume = length * width * hight ;
```

```
    printf("The area of parallelepiped is %.2f \n",volume);
```

```
    return 0 ;
```

```
}
```

```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\Assignment 1\task 4.exe
Enter length
4
Enter width
3.7
Enter hight
2.6
The area of parallelepiped is 38.48
-----
Process exited after 12.63 seconds with return value 0
Press any key to continue . . .
```

