

Assignment -1

Name: Y. Jahnvi
RegNo: 192110724

```
1) */include <stdio.h>
#include <conio.h>
void main()
{
    int n=0, f=1;
    printf("enter the number");
    scanf("%d", &n);
    while (n>0)
    {
        f = n;
        n--;
    }
    printf("the factorial is %d", n, f);
}
```

```
2) */include <stdio.h>
#include <conio.h>
#include <string.h>
void main()
{
    char str[50];
    int i=0, count=0;
    printf("enter the string\n");
    gets(str);
    Length = strlen(str);
    while (str[i] != Null)
```

```

{
if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' || str[i] == 'u')
{
count++;
}
i++;
}
printf("length = %d, no of vowels = %d", i, count);
}

```

3) ~~#~~include <stdio.h>

#include <conio.h>

struct student {

char name[50];

int roll;

float marks;

}

s[10];

int main()

{

int i;

printf("enter details of 3 students:\n");

for (i=0; i<3; i++)

{

printf("\n Enter roll number :");


```
scanf ("%d", & s[i].roll);  
printf ("Enter name:");  
scanf ("%s", s[i].name);  
printf ("Enter marks:");  
scanf ("%f", & s[i].Marks);  
printf ("\n");  
}
```

```
printf ("Displaying details for the students:\n\n");  
for (i=0; i<3; i++)  
{  
    printf ("roll number: %d\n", s[i].roll);  
    printf ("Name: %s\n", s[i].Name);  
    printf ("marks: %f\n", s[i].marks);  
    printf ("\n");  
}  
return 0;  
}
```

```

4 #include <stdio.h>
#include <conio.h>
int main()
{
    int a[10], i, else, flag = 0;
    printf("Enter array elements:\n");
    for (i = 0; i <= 9; i++)
    {
        scanf("%d", &a[i]);
    }
    printf("Enter the element to search:\n");
    scanf("%d", &else);
}
printf("Enter the element to search:\n");
scanf("%d", &else);
for (i = 0; i < 10; i++);
{
    if (a[i] == else)
    {
        flag = 1;
        break;
    }
}
if (flag == 1)

```

```

{
printf("Element found\n");
}
else
{
printf("element not found\n");
}
return 0;
}

```

5

```

#include <stdio.h>
int main()
{
int matrix[3][3];
int i, j;
printf("Enter the elements of the matrix:\n");
for(i=0; i<3; i++)
{
for(j=0; j<3; j++)
{
scanf("%d", &matrix[i][j]);
}
}
printf("diagonal elements of the matrix are:\n");
for(i=0; i<3; i++) {
printf("%d", matrix[i][i]);
}
printf("\n");
return 0;
}

```