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2020EET2631  
ASSIGNMENT NO. 3

problem statement 1

main1.c

```
#include<stdio.h>
#include<string.h>
//#include "header.h"

int main()
{
char str[100];
int a;
int x;
printf("enter the string:\n");//taking input
scanf("%s",str);
printf("given input string is %s\n",str);
a = strlen(str);
printf("%d",a);
charcount(str,a);//function for count charcter and integer and special charcter
x = details(str);
details(str);
group(amountpaid);
return 0;
}
```

header.c

```
void charcount(char str[150],int n);
void getdetails(char str[100],int n);
void Group(int amountpaid);
int getDetails(char str[100]);
```

charcount.c

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

void charcount(char str[150],int n){
char ch;
int non = 0, noc = 0, nosc = 0;
for(int i = 0; i<n; i++){
ch = str[i];
if((ch >= 'a' && ch <= 'z')|| (ch >= 'A' && ch <= 'Z'))
noc++;//number of characters
else if(ch >= '0' && ch <= '9')
non++;//no. of digits
else
```

```
nosc++; //no. of special character
```

```
}  
printf("\n number of alphabet is : %d",noc);  
printf("\n number of integers is : %d", non);  
printf("\n number of special character is : %d", nosc);
```

```
}
```

group.c

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

```
void Group(int amountpaid)  
{  
if(amountpaid > 250 && amountpaid<750){  
printf("recharge is successful and you can avail benefits of silver group ");  
  
}  
else if (amountpaid > 750 && amountpaid < 1500){  
printf("Recharge is Successful and you can avail benefits of Gold group");  
}  
else if(amountpaid >1500 && amountpaid < 2500)  
{  
printf("Recharge is Successful and you can avail benefits of Platinum group");  
}  
}
```

details.c

```
#include <stdio.h>  
#include <string.h>  
#include <stdlib.h>  
#include "header.h"  
int getDetails(char str[100])  
{
```

```
char *array[20];  
int i = 0;  
char *p = strtok (str, " ");
```

```
while (p != NULL)  
{  
array[i++] = p;  
p = strtok (NULL, " ");  
}
```

```
for (i = 0; i < 4; ++i)
```

```
{  
char *p1 = strtok (array[i], ":");  
p1 = strtok (NULL, ":");  
array[i] = p1;  
}
```

```
printf("Details:\n");  
printf("Name is %s \n",array[0]);  
printf("Phone is %s \n",array[1]);  
printf("City is %s \n",array[2]);  
printf("Amount is %s \n",array[3]);
```

```
int x = (int) array[3];
```

```
return x;
```

```
}
```

makefile:

**all:**

```
gcc main1.c charcount.c details.c group.c -o main1
```