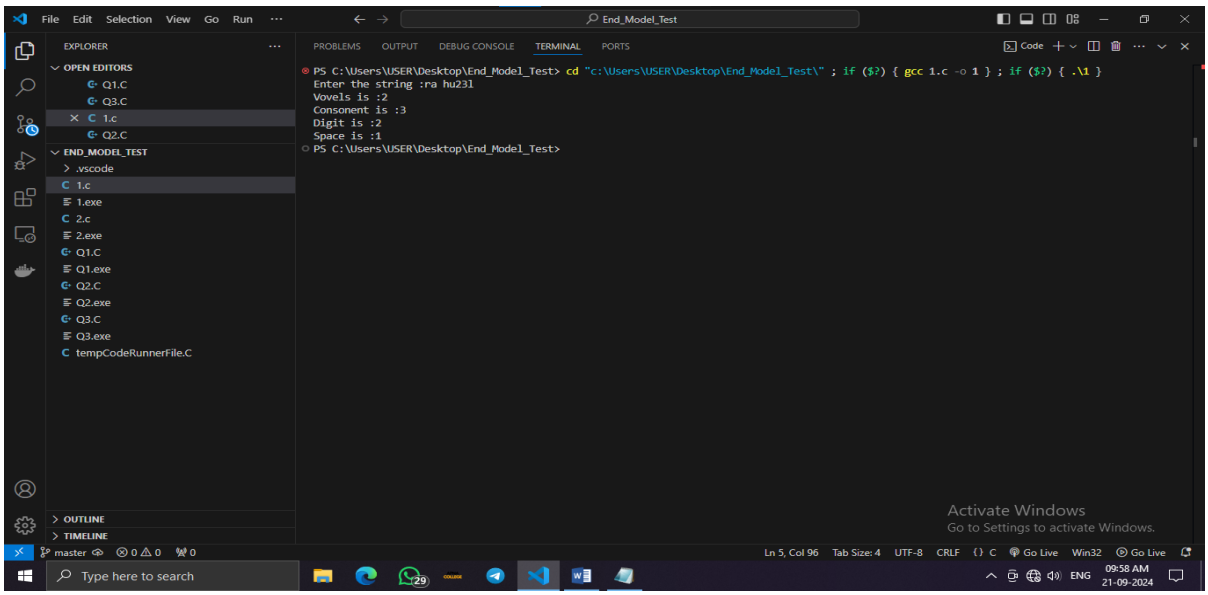
(SET A)

Q1

```
#include<stdio.h>
#include<string.h>
int main()
{

        char str[100];
        printf("Enter the string :");
        gets(str);
        //scanf("%s",str);
int count_vovels=0;
int count_consonants=0;
   strlwr(str);
        for(int i=0;i<strlen(str);i++)
        {
                if(str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='0'||str[i]=='u')
                {
                        count_vovels++;
                }

        if((str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='0'||str[i]=='u')||(str[i]>='0'&&str[i]<='9'))
                {
                        count_consonants++;
                }
        }
        printf("\nVovels is %d",count_vovels);
                 printf("\nConsonent is %d",count_consonants);

int count_digit=0;
         for(int i=0;i<strlen(str);i++)
```

```
{
        if(str[i]>='0'&&str[i]<='9')
        {
                count_digit++;
        }
}
         printf("\nDigit is %d",count_digit);

int count_space=0;
for(int i=0;i<strlen(str);i++)
{
        if(str[i]==' ')
        {
                count_space++;
        }
}
         printf("\nSpace is %d",count_space);

        return 0;
}
```

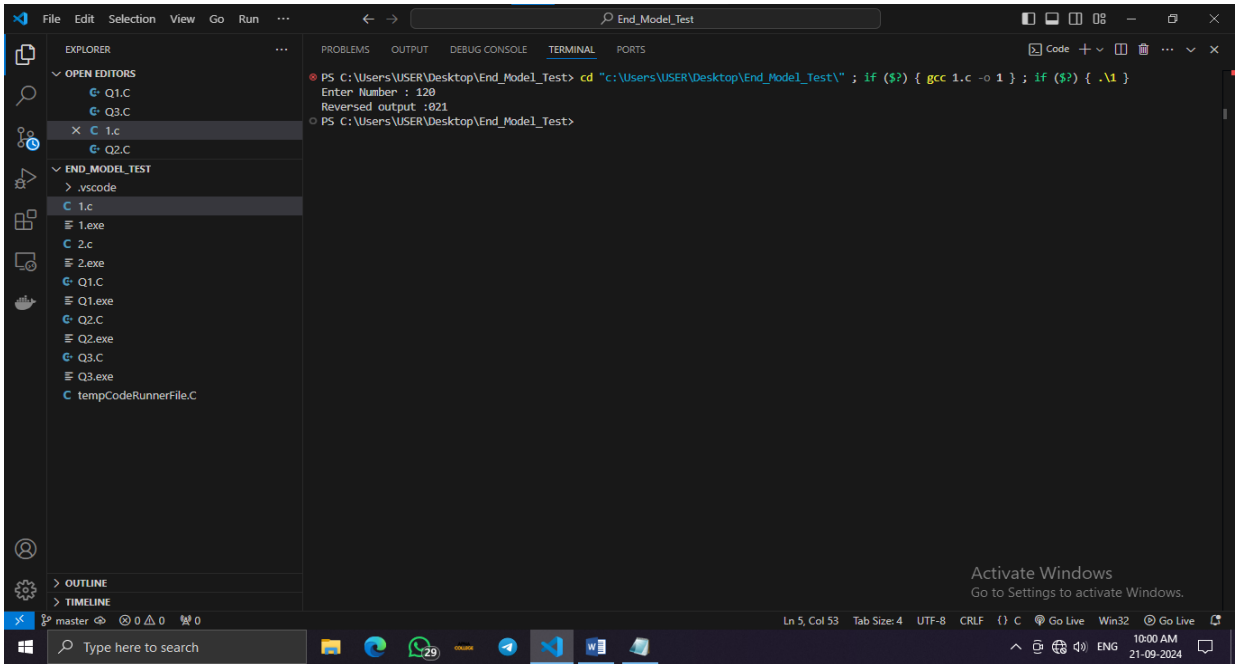
Output :-



Q2

```
#include<stdio.h>
int main()
{

        int n,rev=0,rem,;
        printf("Enter Number :");
        scanf("%d",&n);

        while(n!=0)
        {
                rem=n%10;
                rev=(rev*10)+rem;
                n=n/10;
        }

        printf("\nReversed output :%d",reverse);
        return 0;
}
```

Output :



Q3

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

typedef struct product{
	char name[10];
	int id;
	double price;
}product;
int main()
{
	int discount ,GST;
	int n;
	printf("How many product you add :");
	scanf("%d",&n);

	product arr[10];

	for(int i=0;i<n;i++)
	{
		printf("\nProduct");

		printf("\nEnter id:");
		scanf("%d",&arr[i].id);

		printf("Enter Name:");
		scanf("%s",arr[i].name);

		printf("Enter price:");
		scanf("%lf",&arr[i].price);
	}
```

```
For(int i=0;i<n;i++){



        if(arr[i].price>500)
        {
                discount=arr[i].price-((arr->price*20)/100);
                printf("\nTotal discount on price will be :%d\n",discount);
        }
        else if(arr[i].price<500)
        {
                discount=arr[i].price-((arr->price*5)/100);
                printf("\nTotal discount on price will be :%d\n",discount);
        }
        else
        {
                printf("no op");
        }


}


//display
  for(int i=0;i<n;i++)
        {
                printf("\n\nDisplay details of product %d",i+1);
                printf("\n%d",arr[i].id);
                printf("\n%s",arr[i].name);
                printf("\n%lf",arr[i].price);


                printf("\nGST should be :");
                GST=arr[i].price-(discount*18)/100;
                printf("\nTotal Price after deducting GST :%d",GST);
```

```
}

        return 0;

}
```

Output :-