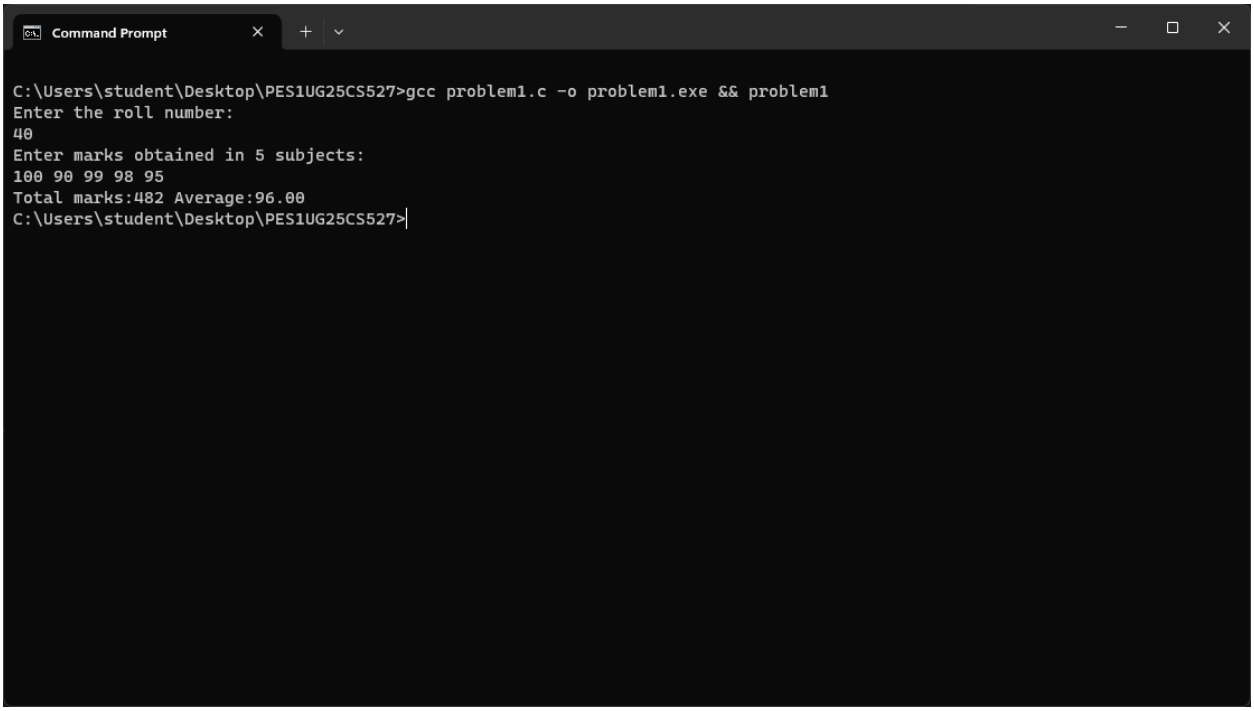
Week 2

Problem 1

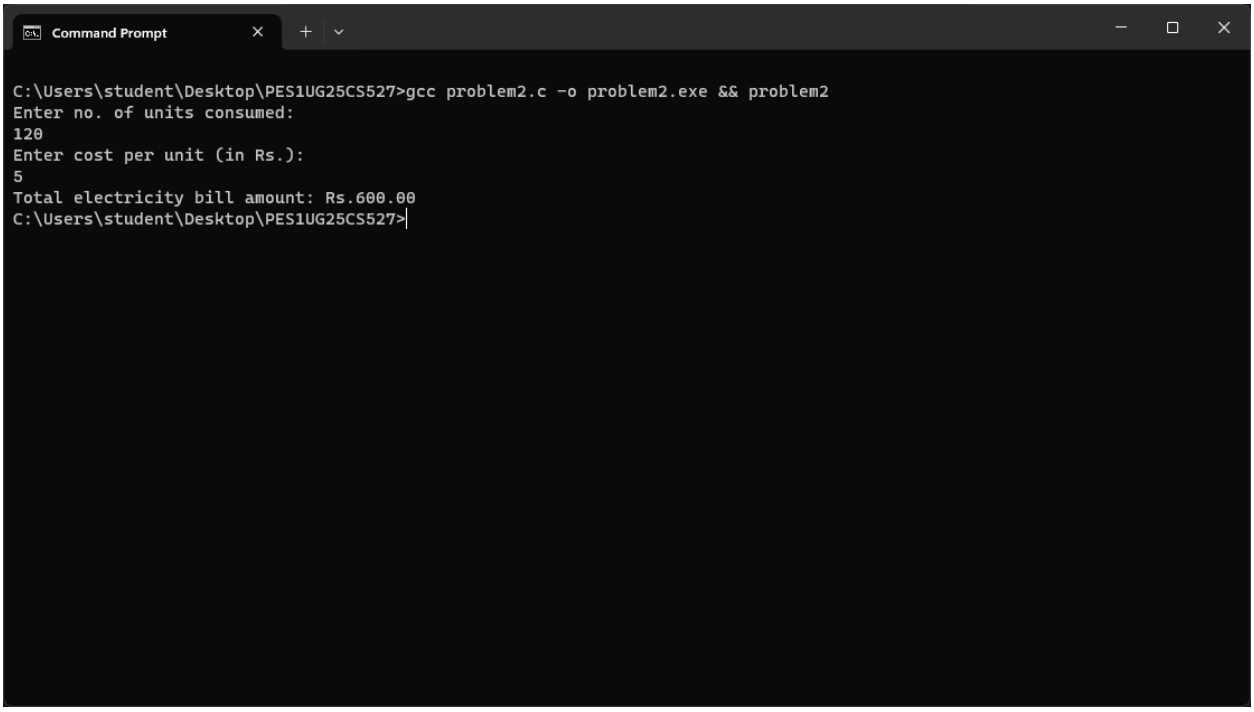
```
/*
 * Author: Soham Shashank
 * SRN: PES1UG25CS527
 */
#include <stdio.h>
int main()
{
        int rnum,m1,m2,m3,m4,m5,total;
        float avg;
        printf("Enter the roll number: \n");
        scanf(" %d",&rnum);
        printf("Enter marks obtained in 5 subjects: \n");
        scanf(" %d %d %d %d %d",&m1,&m2,&m3,&m4,&m5);
        total=m1+m2+m3+m4+m5;
        avg=total/5;
        printf("Total marks:%d Average:%f",total,avg);
return 0;
}
```



Problem 2

```
/*
 * Author: Soham Shashank
 * SRN: PES1UG25CS527
 */
#include <stdio.h>
int main()
{
        int units;
        float cpu,amt;
        printf("Enter no. of units consumed: \n");
        scanf(" %d",&units);
        printf("Enter cost per unit(in Rs.): \n");
        scanf(" %f",&cpu);
        amt=units*cpu;
        printf("Total electricity bill amount: Rs.%.2f",amt);
```

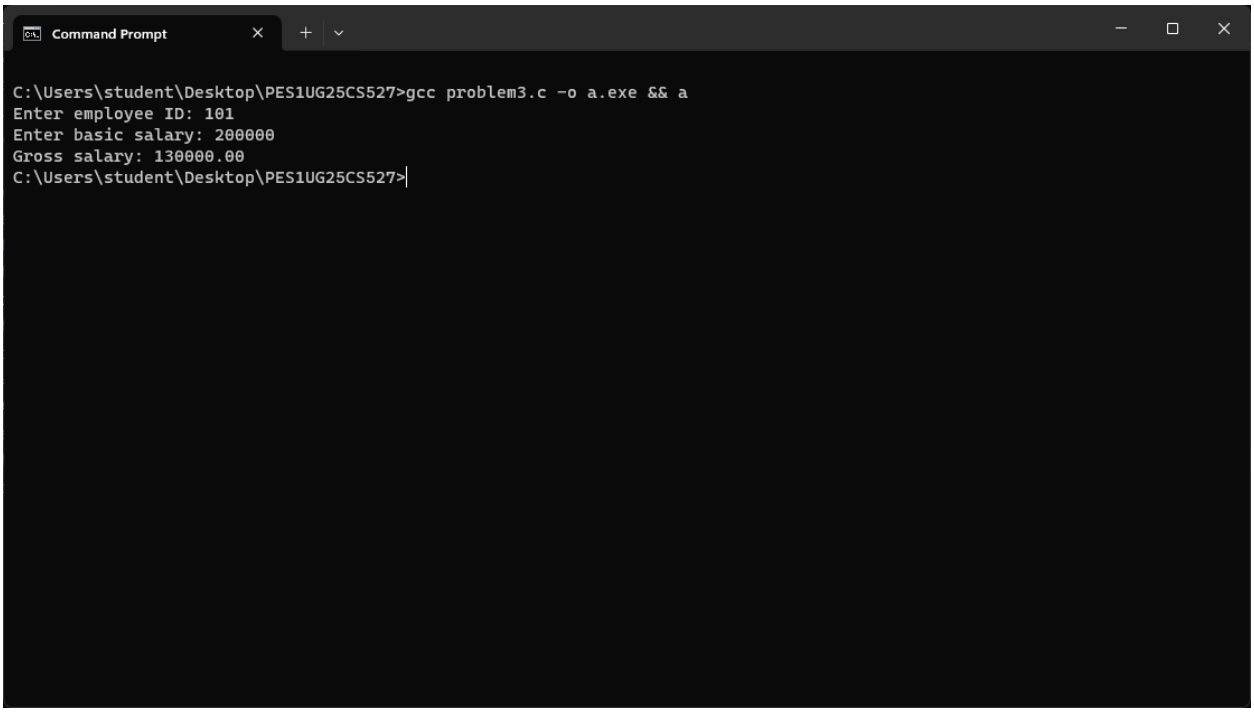
```
        return 0;
}
```



Problem 3

```
/*****************
Author Soham Shashank
SRN PES1UG25CS527
*****************/
#include <stdio.h>
int main(){
    int emp_id;
    float basicAllowance,hra,dearAllowance,gross;
    printf("Enter employee ID: ");
    scanf("%d",&emp_id);
    printf("Enter basic salary: ");
    scanf("%f",&basicAllowance);
    hra = 0.2*basicAllowance;
    dearAllowance = 0.15*basicAllowance;
```

```
    gross = (basicAllowance - hra - dearAllowance);
    printf("Gross salary: %.2f",gross);
    return 0;
}
```

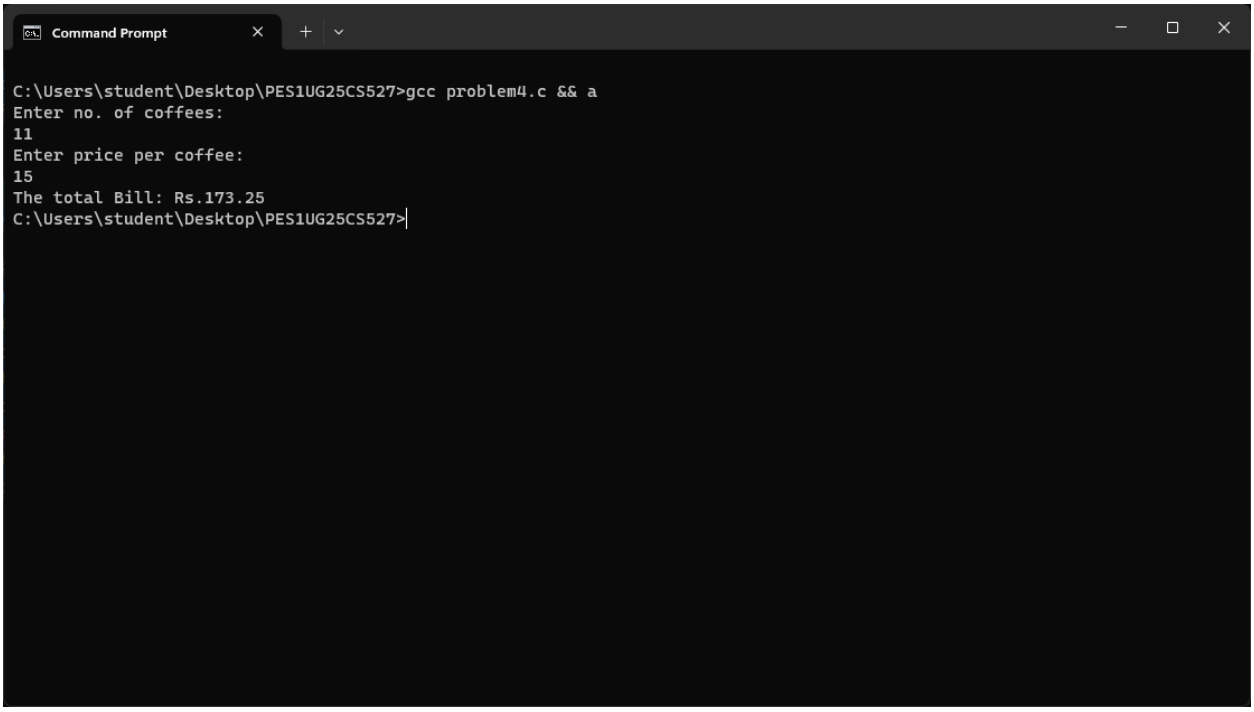


Problem 4

```
/*
 * Author: Soham Shashank
 * SRN: PES1UG25CS527
 */

#include <stdio.h>
int main()
{
    int n;
    float cp,bl;
    printf("Enter no. of coffees:\n");
    scanf(" %d",&n);
```

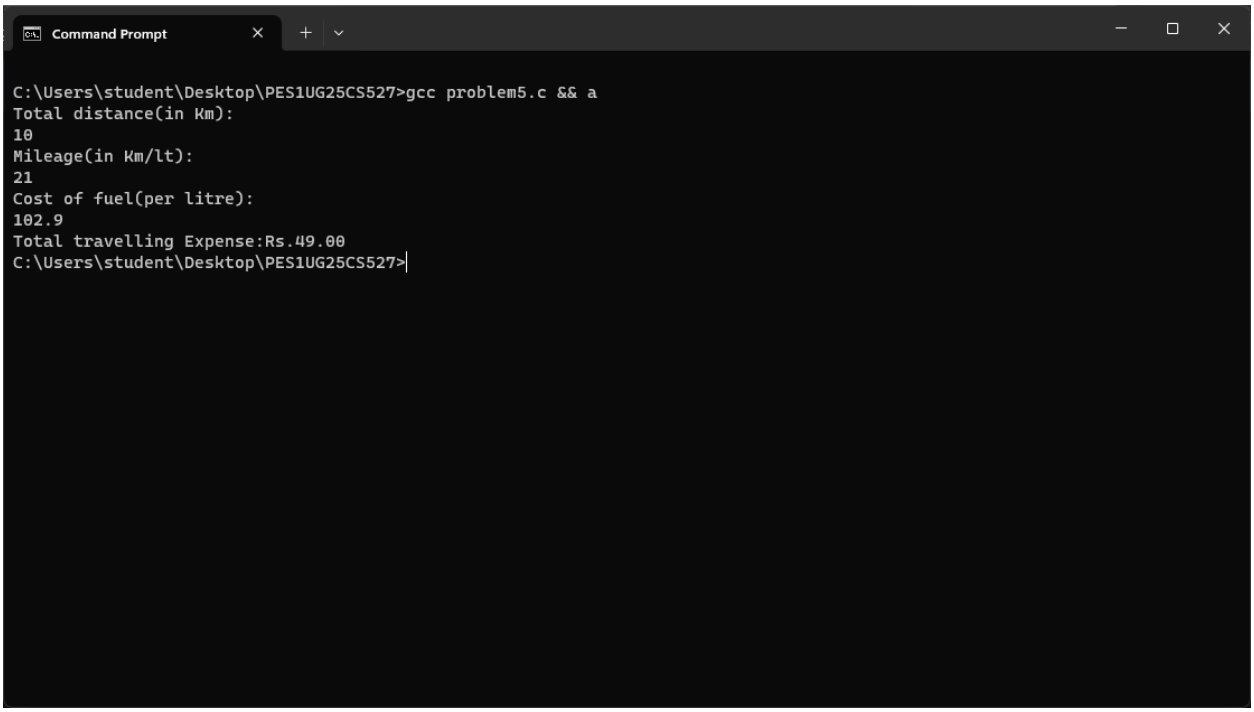
```
    printf("Enter price per coffee:\n");
    scanf(" %f",&cp);
    bl=cp*n+cp*n*0.05;
    printf("The total Bill: Rs.%.2f",bl);
    return 0;
}
```



Problem 5

```
/*
 * Author: Soham Shashank
 * PES1UG25CS527
 */
#include <stdio.h>
int main()
{
    float td,mil,cfp,exp;
    printf("Total distance(in Km):\n");
    scanf(" %f",&td);
```

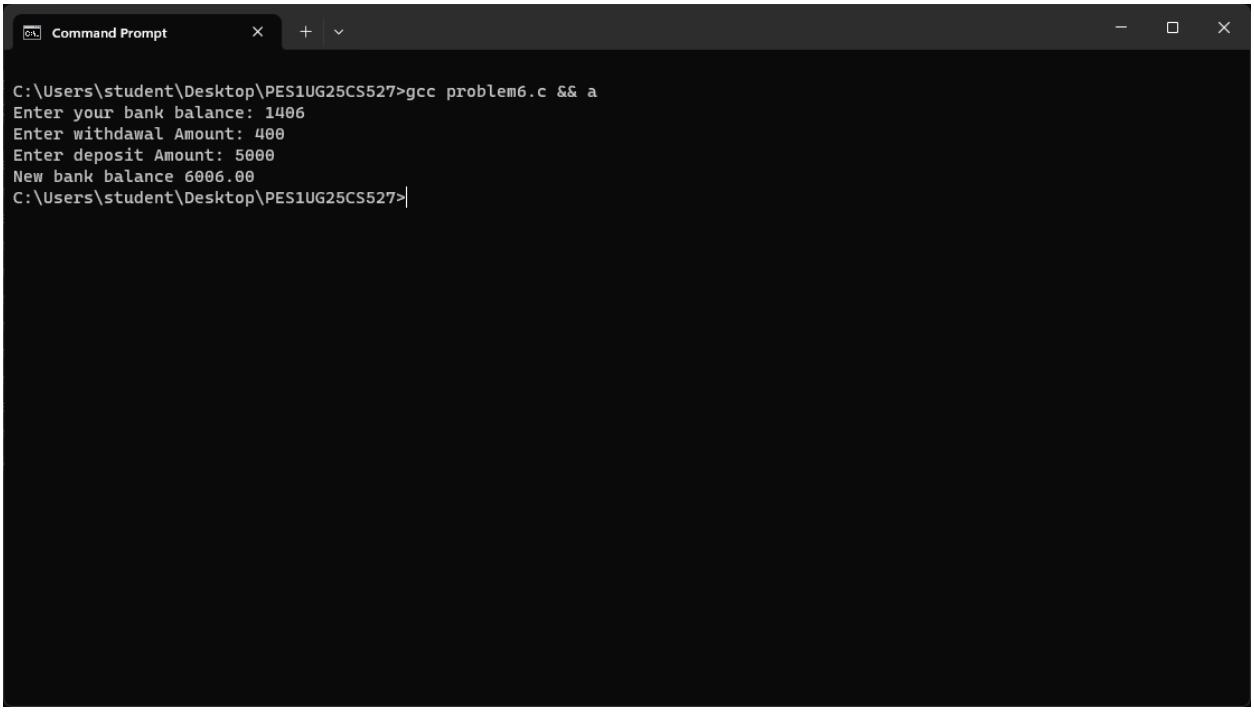
```
    printf("Mileage(in Km/lt):\n");
    scanf(" %f",&mil);
    printf("Cost of fuel(per litre):\n");
    scanf(" %f",&cfp);
    exp=td/mil*cfp;
    printf("Total travelling Expense:Rs.%.2f",exp);
    return 0;
}
```



Problem 6

```
/*
 * Author: Soham Shashank
 * PES1UG25CS527
 */
 #include <stdio.h>
 int main(){
     float bankBalance,withdrawAmount,depositAmount,balance;
```

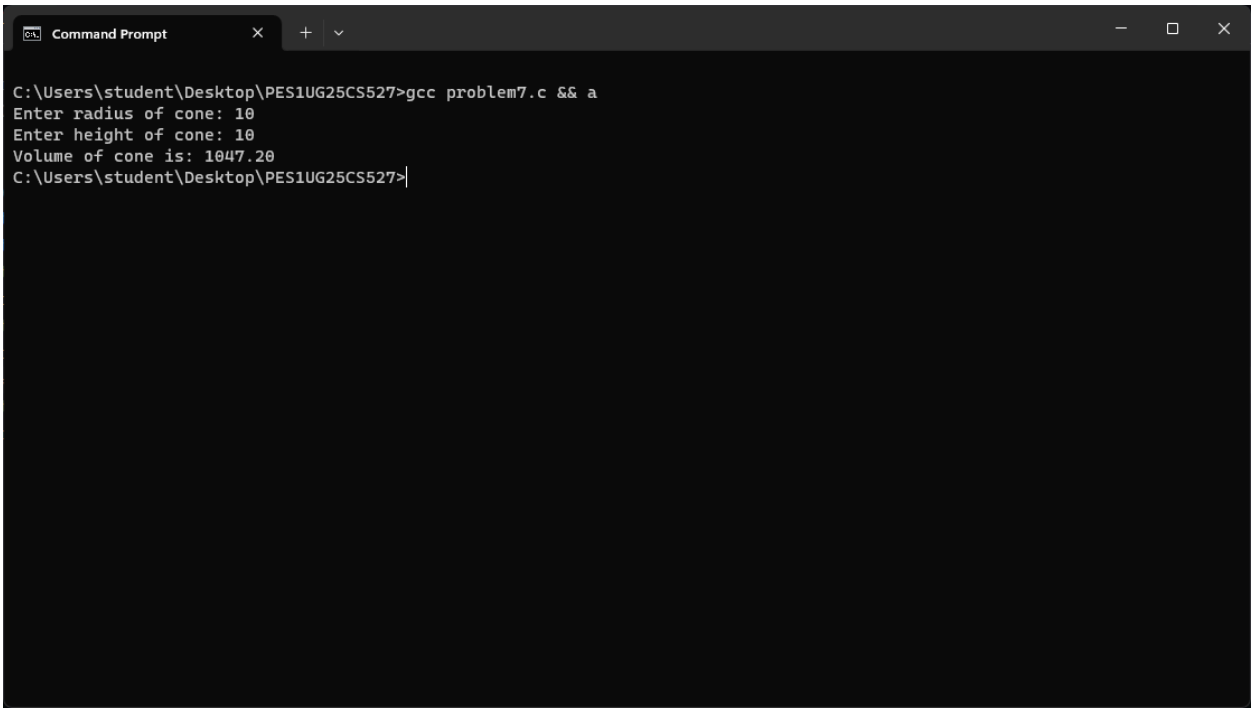
```
    printf("Enter your bank balance: ");
    scanf("%f",&bankBalance);
    printf("Enter withdawal Amount: ");
    scanf("%f",&withdrawAmount);
    printf("Enter deposit Amount: ");
    scanf("%f",&depositAmount);
    balance = bankBalance + depositAmount - withdrawAmount;
    printf("New bank balance %.2f",balance);
    return 0;
}
```



Problem 7

```
/*
 * Author: Soham Shashank
 * PES1UG25CS527
 */
#include <stdio.h>
```

```c
int main(){
    float pi = 3.14159265358979323876462384197165390761;
    float r,h,vol;
    printf("Enter radius of cone: ");
    scanf("%f",&r);
    printf("Enter height of cone: ");
    scanf("%f",&h);
    vol = 0.33333333333333333333333333*pi*r*r*h;
    printf("Volume of cone is: %.2f",vol);
    return 0;
}
```



Problem 8

```c
/*
 * Author: Soham Shashank
 * SRN: PES1UG25CS527
 */
#include <stdio.h>
```

```c
int main(){
    float c,f;
    printf("Enter temperature in celsius: ");
    scanf("%f",&c);
    f = 1.8*c+32;
    printf("Temperature in Farhenheit is: %.2f",f);
    return 0;
}
```