PROBLEM#02

Q :Write a program which prints Marks Report and calculates(Obtain marks , Percentage , Grade , GPA) according to marks of each subjects input by user.

SOURCE CODE:

```c
#include <stdio.h>

int main(void){

        //All the variables for subjects..

        float eng;

        float cal;

        float pst;

        float ict;

        float disc;

        float pf;

        float obt;

        float per;


        // heading

        printf("\n\n\t********\tENTER MARKS OF ALL SUBJECTS\t********\t");


        // here we enter marks of all subjects


        printf(" \n\n ENTER SUBJECTS 1 MARKS [ENGLISH] \n ");

        scanf("%f",&eng);//take input of subject marks


        printf(" \n ENTER SUBJECTS 2 MARKS [CALCULAS]\n ");

        scanf("%f",&cal);//take input of subject marks


        printf(" \n ENTER SUBJECTS 3 MARKS [PAKISTAN STUDIES]\n ");

        scanf("%f",&pst);//take input of subject marks
```
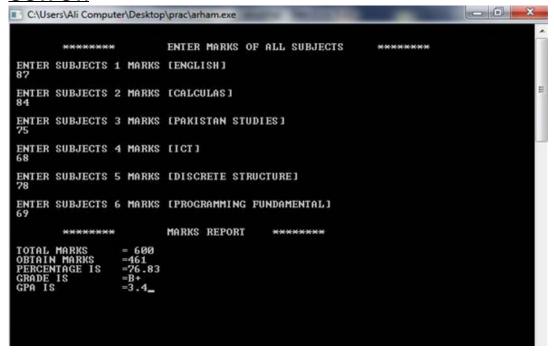
```c
printf(" \n ENTER SUBJECTS 4 MARKS [ICT]\n ");

scanf("%f",&ict);//take input of subject marks


printf(" \n ENTER SUBJECTS 5 MARKS [DISCRETE STRUCTURE] \n ");

scanf("%f",&disc);//take input of subject marks


printf(" \n ENTER SUBJECTS 6 MARKS [PROGRAMMING FUNDAMENTAL]\n ");

scanf("%f",&pf);//take input of subject marks


// start of marks report

//heading

printf("\n\t********\tMARKS REPORT\t********\t");


// here we calculate obtain marks

obt = eng + cal+ ict + pst + disc + pf;

printf("\n\n TOTAL MARKS\t = 600");

printf(" \n OBTAIN MARKS \t =%.0f ",obt);


//here we calculate percentage%

float total = 600;

per = (obt/600)*100;

printf(" \n PERCENTAGE IS \t =%.2f ",per);


// here is a code for grades and GPA


//if percentage is greater than or equal to 90

 if (per>= 90){

        printf("\n GRADE IS \t =A+");

        printf("\n GPA IS \t =4.0");

}


//if percentage is greater than or equals to 85 or less than or equals to 89

else if (per>= 85 && per<=89){

        printf("\n GRADE IS \t =A");
```

```c
        printf("\n GPA IS \t =4.0");
}


//if percentage is greater than or equals to 80 or less than or equals to 84
else if (per>= 80 && per<=84){
        printf("\n GRADE IS \t =A-");
        printf("\n GPA IS \t =3.8");
}


//if percentage is greater than or equals to 75 or less than or equals to 79
else if (per>= 75 && per<=79){
        printf("\n GRADE IS \t =B+");
        printf("\n GPA IS \t =3.4");
}


//if percentage is greater than or equals to 71 or less than or equals to 74
else if (per>= 71 && per<=74){
        printf("\n GRADE IS \t =B");
        printf("\n GPA IS \t =3.0");
}


//if percentage is greater than or equals to 68 or less than or equals to 70
else if (per>= 68 && per<=70){
        printf("\n GRADE IS \t =B-");
        printf("\n GPA IS \t =2.8");
}


//if percentage is greater than or equals to 64 or less than or equals to 67
else if (per>= 64 && per<=67){
        printf("\n GRADE IS \t =C+");
        printf("\n GPA IS \t =2.4");
}


//if percentage is greater than or equals to 61 or less than or equals to 63
```

```c
else if (per>= 61 && per<=63){

        printf("\n GRADE IS \t =C");

        printf("\n GPA IS \t =2.0");

}


//if percentage is greater than or equals to 57 or less than or equals to 60

else if (per>= 57 && per<=60){

        printf("\n GRADE IS \t =C-");

        printf("\n GPA IS \t =1.8");

}


//if percentage is greater than or equals to 53 or less than or equals to 56

else if (per>= 53 && per<=56){

        printf("\n GRADE IS \t =D+");

        printf("\n GPA IS \t =1.4");

}


//if percentage is greater than or equals to 50 or less than or equals to 52

else if (per>= 50 && per<=52){

        printf("\n GRADE IS \t =D");

        printf("\n GPA IS \t =1.0");

}

// if percentage is less than 50

else if (per<50){

        printf("\n GRADE IS \t =FAIL");

}


//end of code

getche();

}
```

OUTPUT:


```
C:\Users\Ali Computer\Desktop\prac\arham.exe

        ********        ENTER MARKS OF ALL SUBJECTS        ********
ENTER SUBJECTS 1 MARKS [ENGLISH]
87

ENTER SUBJECTS 2 MARKS [CALCULAS]
84

ENTER SUBJECTS 3 MARKS [PAKISTAN STUDIES]
75

ENTER SUBJECTS 4 MARKS [ICT]
68

ENTER SUBJECTS 5 MARKS [DISCRETE STRUCTURE]
78

ENTER SUBJECTS 6 MARKS [PROGRAMMING FUNDAMENTAL]
69

        ********        MARKS REPORT        ********

TOTAL MARKS     = 600
OBTAIN MARKS    =461
PERCENTAGE IS   =76.83
GRADE IS        =B+
GPA IS          =3.4_
```

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