

Name : Jatin Roll No. : 2K20/A13/64

PRACTICAL - 3

AIM - Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade.

```
#include <stdio.h>

int main() {

    float temp=0,marks=0,per=0;
    char grad;
    printf("\n Enter Your Physics Marks Out of 100 : ");
    scanf("%f",&temp);
    marks += temp;
    printf("\n Enter Your Maths Marks Out of 100 : ");
    scanf("%f",&temp);
    marks += temp;
    printf("\n Enter Your Chemistry Marks Out of 100 : ");
    scanf("%f",&temp);
    marks += temp;
    printf("\n Enter Your Biology Marks Out of 100 : ");
    scanf("%f",&temp);
    marks += temp;
    printf("\n Enter Your Computer Marks Out of 100 : ");
    scanf("%f",&temp);
    marks += temp;

    per = marks*0.2;

    if(per >=90) {
        grad = 'A';
    }else if(per >= 80) {
        grad = 'B';
    }else if(per >= 70) {
```

```

        grad = 'C';

    }else if(per >= 60){
        grad = 'D';

    }else if(per >= 40){
        grad = 'E';
    }else{
        grad = 'F';
    }

    printf("\n Percentage is : %f%\n Grade is : %c",per,grad);

    return 0;
}

```

Output :

```

Enter Your Physics Marks Out of 100 : 89
Enter Your Maths Marks Out of 100 : 85
Enter Your Chemistry Marks Out of 100 : 90
Enter Your Biology Marks Out of 100 : 95
Enter Your Computer Marks Out of 100 : 98
Percentage is : 91.400002%
Grade is : A

```

AIM - Write a C program to input basic salary of an employee and calculate its Gross salary.

```

#include <stdio.h>

int main(){

```

```
float basic, gross, da, hra;

printf("Enter basic salary of an employee: ");
scanf("%f", &basic);

if(basic <= 10000)
{
    da = basic * 0.8;
    hra = basic * 0.2;
}
else if(basic <= 20000)
{
    da = basic * 0.9;
    hra = basic * 0.25;
}
else
{
    da = basic * 0.95;
    hra = basic * 0.3;
}

gross = basic + hra + da;

printf("Gross Salary : %f", gross);

return 0;
}
```

Output :

```

PS D:\vs code\c> cd "d:\vs code\c\" ; if ($?) { gcc LAB3.c -o LAB3 } ; if ($?) { .\LAB3 }
Enter basic salary of an employee: 5000
Gross Salary : 10000.00
PS D:\vs code\c> cd "d:\vs code\c\" ; if ($?) { gcc LAB3.c -o LAB3 } ; if ($?) { .\LAB3 }
Enter basic salary of an employee: 15000
Gross Salary : 32250.000000
PS D:\vs code\c> cd "d:\vs code\c\" ; if ($?) { gcc LAB3.c -o LAB3 } ; if ($?) { .\LAB3 }
Enter basic salary of an employee: 25000

```

AIM - Write a C program to input electricity unit charges and calculate total electricity bill.

```

#include <stdio.h>

int main(){

    float charge=0;
    int units = 0;
    printf("\nEnter Electricity Units consumed : ");
    scanf("%d",&units);

    if(units <= 50){
        charge = units*0.50;
    }else if(units <= 150){
        charge += 50*0.50;
        charge += (units-50)*0.75;
    }else if(units <= 250){
        charge += 50*0.50;
        charge += 100*0.75;
        charge += (units-150)*1.20;
    }else{
        charge = units*1.50;
    }

    charge += charge*0.2;

    printf("\n Total Amount To Pay : Rs. %f",charge);
}

```

```
    return 0;
}
```

Output :

```
Enter Electricity Units consumed : 40
Total Amount To Pay : Rs. 24.000000
Enter Electricity Units consumed : 80
Total Amount To Pay : Rs. 57.000000
Enter Electricity Units consumed : 140
Total Amount To Pay : Rs. 111.000000
PS D:\vs code\c> cd "d:\vs code\c\" ; if ($?) { gcc LAB3.c -o LAB3 } ; if ($?) { .\LAB3 }
Enter Electricity Units consumed : 240
Total Amount To Pay : Rs. 249.600006
PS D:\vs code\c> cd "d:\vs code\c\" ; if ($?) { gcc LAB3.c -o LAB3 } ; if ($?) { .\LAB3 }
Enter Electricity Units consumed : 500
Total Amount To Pay : Rs. 900.000000
```