06)

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int job_num;
    int level;
    int salary;
    int gross_salary;
    int house_rent;

    printf("enter the job number \n");
    scanf("%d",&job_num);
    printf("enter the level number \n");
    scanf("%d",&level);
    printf("enter the basic salary \n");
    scanf("%d",&salary);
    house_rent=(salary*25)/100;
    if(salary>=6000){
        gross_salary=salary-(salary*8)/100;
    }else if (salary>=4000){
        gross_salary=salary-(salary*5)/100;
    }else if (salary>=2000){
        gross_salary=salary-(salary*3)/100;

    }else if (salary<2000){

    }else{
        printf("enter the correct salary");
    }


    if(level==1){
        gross_salary+=1000+500;
    }else if (level==2){
        gross_salary+=(750+200);
    }else if (level==3){
        gross_salary+=500+100;

    }else if (level==4){
        gross_salary+=250;
    }else{
        printf("enter the correct level number");
    }
    printf("net salary is - %d",gross_salary+house_rent);

    return 0;
}
```

07)

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int x;
    int y;

    printf("enter the x number -\n");
    scanf("%d",&x);
    if(x>0){
        y=-1;
    }else if(x==0){
        y=0;

    }else if(x<0){
        y=1;

    }
    printf("x is = %d and y is = %d",x,y);
    return 0;
}
```

08)

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int a;
    int b;
    int c;
    int x;
    int x2;

    printf("enter number a\n");
    scanf("%d",&a);
    printf("enter number b\n");
    scanf("%d",&b);
    printf("enter number c\n");
    scanf("%d",&c);

    if(a==0 && b==0){
        printf("No solution\n");
    }else if(a==0){
        x=-c/b;
        printf("x is = %d",x);
    }else if (b*b-(4*a*c)<0){
        printf("There are no roots \n");
    }else{
```

```c
        x=(-b+(b*b-(4*a*c)))/2*a;

        x2=(-b-(b*b-(4*a*c)))/2*a;

        printf("x is %d or %d",x,x2);

    }

    return 0;

}
```

09)

```c
#include <stdio.h>

#include <stdlib.h>


int main()

{

    int a;

    int b;

    int c;


    int max=0;

    int i=0;


    printf("enter the 1st number  =\n");

    scanf("%d",&a);

    printf("enter the 2nd number  =\n");

    scanf("%d",&b);

    printf("enter the 3rd number  =\n");

    scanf("%d",&c);

    int d[]={a,b,c};

    for(i=0;i<3;i++){

        if(max<d[i]){

            max=d[i];

        }

    }

    if(max==a){

        if(max*max==b*b+(c*c)){

            printf("this is  right-angled triangle");

        }else{

            printf("this is not right-angled triangle");

        }

    }else if(max==b){

        if(max*max==a*a+(c*c)){

            printf("this is  right-angled triangle");

        }else{

            printf("this is not right-angled triangle");

        }

    }else if(max==c){

        if(max*max==b*b+(a*a)){

            printf("this is  right-angled triangle");

        }else{

            printf("this is not right-angled triangle");

        }
```

```c
    }else{

        printf("this is not right-angled triangle");

    }

    return 0;

}


10)
#include <stdio.h>

#include <stdlib.h>


int main()

{

    float mass;

    float height;

    char name[30];

    float bim;


    printf("enter your name =\n");

    scanf("%s",&name);

    printf("enter your mass =\n");

    scanf("%f",&mass);

    printf("enter your height =\n");

    scanf("%f",&height);

    bim=mass/(height*height);

    if(bim>27.5){

        printf("name -  %s\n Mass - %f\n Height - %f\n BIM - %f\n health risk - High risk of developing heart disease, high blood pressure, stroke, diabetes",name,mass,height,bim);

    }else if(bim>23){

        printf("name -  %s\n Mass - %f\n Height - %f\n BIM - %f\n health risk - Moderate risk of developing heart disease, high blood pressure, stroke,diabetes ",name,mass,height,bim);

    }else if(bim>18.5){

        printf("name -  %s\n Mass - %f\n Height - %f\n BIM - %f\n health risk - Low Risk (healthy range)",name,mass,height,bim);

    }else{

        printf("name -  %s\n Mass - %f\n Height - %f\n BIM - %f\n health risk -Risk of developing problems such as nutritional deficiency and osteoporosis ",name,mass,height,bim);

    }


    return 0;

}
```