**Practical 4**

1.

#include <stdio.h>

int main()

{

    int n1;

    printf("Enter a Number ");

    scanf("%d",&n1);

    if(n1%2==0)

        printf("%d is an even number.",n1);

        else

            printf("%d is an odd number.",n1);

}

2.

#include <stdio.h>

int main()

{

    int choice;

    float n1,n2;

    printf("Enter two numbers ");

    scanf("%f %f", &n1,&n2);

    printf("1. Addition\n");

    printf("2. Subtraction\n");

    printf("3. Multiplication\n");

    printf("4. Division\n");

    printf("Enter your choice ");

    scanf("%d", &choice);

    switch(choice){

     case 1:printf("Answer is %.5f\n ",n1+n2);break;

     case 2:printf("Answer is %.5f\n ",n1-n2);break;

     case 3:printf("Answer is %.5f\n ",n1\*n2);break;

     case 4:printf("Answer is %.5f\n ",n1/n2);break;

     default:printf("Invalid ");

    }

}

3.

#include <stdio.h>

#include <math.h>

int main()

{

    int choice;

    float r,result,PI=3.14159;

    printf("Menu\n");

    printf("1. Calculate the circumference of a circle\n");

    printf("2. Calculate the area of a circle\n");

    printf("3. Calculate the volume of a sphere\n");

    printf("Enter your choice ");

    scanf("%d", &choice);

    printf("Enter the radius ");

    scanf("%f", &r);

    switch(choice) {

        case 1:printf("The circumference of the circle is %.2f\n", 2\*PI\*r);break;

        case 2:printf("The area of the circle is %.2f\n", PI\*r\*r);break;

        case 3:printf("The volume of the sphere is %.2f\n", (4/3)\*PI\*r\*r\*r);break;

        default:printf("Invalid choice.\n");break;

    }

}

4.

#include <stdio.h>

int main()

{

    char c;

    printf("Enter a Character ");

    scanf("%c",&c);

    switch(c)

    {

        case 'a':printf("This is a vowel ");break;

        case 'e':printf("This is a vowel ");break;

        case 'i':printf("This is a vowel ");break;

        case 'o':printf("This is a vowel ");break;

        case 'u':printf("This is a vowel ");break;

        case 'A':printf("This is a vowel ");break;

        case 'E':printf("This is a vowel ");break;

        case 'I':printf("This is a vowel ");break;

        case 'O':printf("This is a vowel ");break;

        case 'U':printf("This is a vowel ");break;

        default :printf("This is not a vowel ");

    }

}

5.

#include <stdio.h>

int main()

{

    int month,days;

    printf("Enter the month number ");

    scanf("%d",&month);

    switch (month)

    {

        case 1:days=31;break;

        case 2:days=28;break;

        case 3:days=31;break;

        case 4:days=30;break;

        case 5:days=31;break;

        case 6:days=30;break;

        case 7:days=31;break;

        case 8:days=31;break;

        case 9:days=30;break;

        case 10:days=31;break;

        case 11:days=30;break;

        case 12:days=31;break;

        default :printf("Invalid month number\n ");

    }

    printf("The total number of days in month %d is %d\n ",month,days);

}