1. #include <stdio.h>

#include <stdlib.h>

int main()

{

int x;

printf("Input the number: ");

scanf("%d", &x);

if (x % 2 == 0) {

printf("x is an even number.\n");

} else {

printf("x is an odd number.\n");

}

return 0;

}

1.1#include <stdio.h>

#include <stdlib.h>

int main()

{

int y,z;

printf("Input the number");

scanf("%d",&y);

z=y%2;

switch(z)

{

case 0:printf(" y is even\n");break;

default:printf("y is odd\n");

}

return 0;

}

2. #include <stdio.h>

#include <stdlib.h>

int main()

{

int ch,n1,n2,add,sub,mult;

float div;

printf("menu:\n");

printf("1.addition\n");

printf("2.subtraction\n");

printf("3.multiplication\n");

printf("4.division\n");

printf("enter your choice:\n");

scanf("%d",&ch);

printf("enter first value\n");

scanf("%d",&n1);

printf("enter second value\n");

scanf("%d",&n2);

add=1+n2;

sub=n1-n2;

mult=n1\*n2;

div=n1/n2;

switch(ch)

{

case 1:printf("addition=%d\n",add);break;

case 2:printf("subtraction=%d\n",sub);break;

case 3:printf("multiplication=&d\n",mult);break;

case 4:printf("division=&d\n",div);break;

}

return 0;

}

3. #include <stdio.h>

#include <stdlib.h>

int main()

{ int choice;

float r,c,a,v,x=3.14;

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

printf("2.calculate area\n");

printf("3.calculate volume\n");

printf("Enter your choice");

scanf("%d",&choice);

printf("enter the radius");

scanf("%f",&r);

if(choice==1)

{

c=2\*3.14\*r;

printf("circumference of a circle=%.2f",c);

} else if(choice==2){

a=x\*r\*r;

printf("area of a circle=%.2f",a);

}

else

{

v=(4.0/3.0)\*x\*r\*r\*r;

printf("volume of a circle=%.2f",v);

}

return 0;

}

4. #include <stdio.h>

#include <stdlib.h>

int main()

{

char v;

printf("enter a chracter\n");

scanf("%c",&v);

switch(v)

{

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

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

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

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

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

default :printf("it is not a vowel");break;}

return 0;

}

5. #include <stdio.h>

#include <stdlib.h>

int main()

{

int m;

printf("enter a month number");

scanf("%d",&m);

switch(m){

case 1:printf("31 of days in january");break;

case 2:printf("28 of days in february");break;

case 3:printf("31 of days in march");break;

case 4:printf("30 of days in april");break;

case 5:printf("31 of days in may");break;

case 6:printf("30 of days in june");break;

case 7:printf("31 of days in july");break;

case 8:printf("30 of days in august");break;

case 9:printf("31 of days in september");break;

case 10:printf("30 of days in october");break;

case 11:printf("31 of days in november");break;

case 12:printf("30 of days in december");break;

default:printf("invalid input");break;

}

return 0;

}