**Practical No.04**

1. #include<stdio.h>

int main()

{

int n;

printf("Enter a number");

scanf("%d",&n);

if (n%2==0)

printf("%d is a even number",n);

else

printf("%d is a odd number",n);

}

#include<stdio.h>

int main()

{

int n,k;

printf("Enter a number : ");

scanf("%d",&n);

k=n%2;

switch(k)

{

case 0:printf("%d is a even number",n); break;

default :printf("%d is a odd number",n); break;

}

}

2. #include<stdio.h>

int main()

{

int n1,n2,a,o,b;

printf("Enter 1st number");

scanf("%d",&n1);

printf("Enter 2nd number");

scanf("%d",&n2);

printf("Choose a operation\n 1-->+\n 2-->-\n 3-->\*\n 4-->/\n Enter operation :");

scanf("%d",&o);

switch (o)

{

case 1 : a=n1+n2;

printf("Answer is =%d",a);

break;

case 2 :if (n1<=n2)

a=n2-n1;

else

a=n1-n2;

printf("Answer is = %d",a);

break;

case 3 :a=n1\*n2;

printf("Answer is = %d",a);

break;

case 4 :if (n1<=n2)

a=n2/n1;

else

a=n1/n2;

b=n1%n2;

printf("Answer is =%d \nRemainder=%d",a,b);

break;

default : printf("Error : Invalid operation");

}

}

3. #include<stdio.h>

int main()

{

float r,c,a,v,p=3.14159;

int o;

printf("Select what you need to calculate \n1.-->Circumference\n2.-->Area\n3.-->Volume");

scanf("%d",&o);

printf("Input the value of the radius");

scanf("%f",&r);

switch (o)

{

case 1 :c=2\*p\*r;

printf("Circumference = %f",c);

break;

case 2 :a=p\*r\*r;

printf("Area = %f",a);

break;

case 3 :v=4\*p\*r\*r\*r/3;

printf("Volume = %f",v);

break;

default : printf("Error! Invalid operation");

}

}

4. #include<stdio.h>

int main()

{

char l;

printf("Enter a letter :");

scanf("%c",&l);

switch(l)

{

case 'a':printf("%c is a vowel",l);

break;

case 'e':printf("%c is a vowel",l);

break;

case 'i':printf("%c is a vowel",l);

break;

case 'o':printf("%c is a vowel",l);

break;

case 'u':printf("%c is a vowel",l);

break;

case 'A':printf("%c is a vowel",l);

break;

case 'E':printf("%c is a vowel",l);

break;

case 'I':printf("%c is a vowel",l);

break;

case 'O':printf("%c is a vowel",l);

break;

case 'U':printf("%c is a vowel",l);

break;

default :printf("%c is not a vowel",l);

}

}

(5) #include <stdio.h>

int main()

{

int month;

printf("Enter month number (1-12): ");

scanf("%d", &month);

switch(month)

{

case 1:

printf("Total number of days = 31");

break;

case 2:

printf("Total number of days = 28");

break;

case 3:

printf("Total number of days = 31");

break;

case 4:

printf("Total number of days = 30");

break;

case 5:

printf("Total number of days = 31");

break;

case 6:

printf("Total number of days = 30");

break;

case 7:

printf("Total number of days = 31");

break;

case 8:

printf("Total number of days = 31");

break;

case 9:

printf("Total number of days = 30");

break;

case 10:

printf("Total number of days = 31");

break;

case 11:

printf("Total number of days = 30");

break;

case 12:

printf("Total number of days = 31");

break;

default:

printf("Invalid input! Please enter month number between (1-12).");

}

return 0;

}