Programming in C

CS 102.3

Practical 04

Group A

30245

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);

}

1.2

#include<stdio.h>

int main()

{

int n1;

printf("Enter a number ");

scanf("%d",&n1);

switch (n1%2)

{

case 0:printf("%d is an even number",n1);break;

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

}

}

2.

#include <stdio.h>

int main()

{

int n1,n2,choice;

printf(" MENU\nSelect an operator\n");

printf("1.Addition\n");

printf("2.Subtraction\n");

printf("3.Multiplicsation\n");

printf("4.Division\n\n");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Enter two numbers ");

scanf("%d %d",&n1,&n2);

printf("The sum is %d\n",n1+n2);

break;

case 2:

printf("Enter two numbers ");

scanf("%d %d",&n1,&n2);

printf("The difference is %d\n",n1-n2);

break;

case 3:

printf("Enter two numbers ");

scanf("%d %d",&n1,&n2);

printf("The product is %d\n",n1\*n2);

break;

case 4:

printf("Enter two numbers ");

scanf("%d %d",&n1,&n2);

if(n2==0)

printf("error");

else

printf("The quotient is %d\n",n1/n2);

break;

default:printf("Invalid choice");

break;

}

}

3.

#include<stdio.h>

#include <math.h>

int main()

{

int choice;

float radius;

printf("MENU \n");

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

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

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

printf("Enter your choice ");

scanf("%d",&choice);

printf("Enter the radius ");

scanf("%f",&radius);

switch (choice)

{

case 1:printf("Circumference- %.2f\n",2\*M\_PI\*radius);break;

case 2:printf("Area of the circle- %.2f\n",M\_PI\*radius\*radius);break;

case 3:printf("Volume of the sphere- %.2f\n",(4/3)\*M\_PI\*radius\*radius\*radius);break;

default:printf("invalid choice");

}

4.

#include<stdio.h>

int main()

{

char ch;

printf("Enter a letter \n");

scanf("%c",&ch);

switch(ch)

{

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

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

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

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

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

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

}

}

5.

#include <stdio.h>

int main()

{

int m;

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

scanf("%d",&m);

switch(m)

{

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:printf("Number of days = 31 \n");break;

case 4:

case 6:

case 9:

case 11:printf("Number of days = 30 \n");break;

case 2:printf("Number of days = 28\n");break;

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

}

}