Programming in C

CS 102.3

Practical 03

Group A

30245

1.

#include<stdio.h>

int main()

{

int a,b;

printf("Enter a number ");

scanf("%d",&a);

printf("Enter another number ");

scanf("%d",&b);

if(a>b)

printf("%d is the highest number \n",a);

else

printf("%d is the highest number \n",b);

}

2.

#include<stdio.h>

int main()

{

int a,b,c,largest,smallest;

printf("Enter three number ");

scanf("%d %d %d",&a,&b,&c);

largest=a;

smallest=a;

if(b>largest)

largest=b;

if(c>largest)

largest=c;

if(b<smallest)

smallest=b;

if(c<smallest)

smallest=c;

printf("The largest number is %d",largest);

printf("The smallest number is %d",smallest);

}

3.

#include<stdio.h>

int main()

{

char name[30];

float bsalary,newsalary,increment;

printf("Enter employee name ");

scanf("%s",&name);

printf("Enter basic salary ");

scanf("%f",&bsalary);

if (bsalary<5000)

increment=0.05\*bsalary;

else if (bsalary>=5000 && bsalary<10000)

increment=0.10\*bsalary;

else

increment=0.15\*bsalary;

newsalary=bsalary+increment;

printf("Employee name is %s \n",name);

printf("Your salary is %f ",newsalary);

}

4.

#include<stdio.h>

#include<math.h>

#define PI 483.14159

int main()

{

float r,d,c,a;

printf("Enter the radius of the circle ");

scanf("%f",&r);

d=2\*r;

c=2\*PI\*r;

a=PI\*r\*r;

printf("The diameter of the circle is %.2f\n",d);

printf("The circumference of the circle is %.2f\n",c);

printf("The area of the circle is %.2f\n",a);

}

5.

#include<stdio.h>

int main()

{

int n1,n2;

printf("Enter first number ");

scanf("%d",&n1);

printf("Enter second number ");

scanf("%d",&n2);

if (n1%n2==0)

printf("%d is a multiplier of %d",n1,n2);

else

printf("%d is not a multiplier of %d",n1,n2);

}

6.

#include <stdio.h>

int main()

{

printf("Integer equivalents of uppercase letters:\n");

printf("A: %d\n", 'A');

printf("B: %d\n", 'B');

printf("C: %d\n", 'C');

printf("Integer equivalents of lowercase letters:\n");

printf("a: %d\n", 'a');

printf("b: %d\n", 'b');

printf("c: %d\n", 'c');

printf("Integer equivalents of numbers:\n");

printf("0: %d\n", '0');

printf("1: %d\n", '1');

printf("2: %d\n", '2');

printf("Integer equivalents of symbols:\n");

printf("$: %d\n", '$');

printf("\*: %d\n", '\*');

printf("+: %d\n", '+');

printf("/: %d\n", '/');

printf("Blank character: %d\n", ' ');

return 0;

}

7.

#include<stdio.h>

int main()

{

int year;

char city;

float bsalary,msales,yallowance,callowance,bonus,grossremuneration;

printf("Enter the salesman's service years ");

scanf("%d",&year);

printf("Enter the salesman's city ");

scanf("%s",&city);

printf("Enter the salesman's basic salary ");

scanf("%f",&bsalary);

printf("Enter the salesman's monthly sales ");

scanf("%f",&msales);

if (year>5)

yallowance=bsalary\*0.10;

if (city=='c')

callowance=2500;

if (msales<25000)

bonus=msales\*0.1;

else if (msales>25000 && msales<50000)

bonus=msales\*0.12;

else

bonus=msales\*0.15;

grossremuneration=bsalary+yallowance+callowance+bonus;

printf("Gross monthly remuneration is %.2f",grossremuneration);

}