PRACTICAL – 03

**Question – 01**

**#include <stdio.h>**

**Int main()**

**{**

**// Question 01 //ok**

**int x,y;**

**printf(“%d%d”, &x,&y);**

**if(x>y)**

**{**

**printf(“\n\nhighest number is = %d”, x);**

**}else**

**}**

**printf(“\n\highest number is = %d”, y)**

**}**

**}**

**Question – 02**

**#include<stdio.h>**

**Int main()**

**{**

**//Question 02 //ok**

**int num1, num2, num3;**

**printf(“\nEnter three integer numbers:”);**

**scanf(“%d%d%d”, &num1, &num2, &num3);**

**int largest = num1;**

**if(num2>largest){**

**largest = num2;**

**}**

**If(num3>largest){**

**Largest = num3**

**}**

**Int smallest = num1;**

**If(num2<smallest){**

**Smallest = num2;**

**}**

**If(num3> smallest) {**

**Smallest = num3;**

**}**

**printf(“Largest number: %d\n”, largest);**

**printf(“Smallest number: %d\n”,smallest);**

**}**

**Question -03**

**#include<stdio.h>**

**Int main()**

**{**

**Char name[30];**

**Float basics,newsal,incre, incre1;**

**printf(“\n Enter the employee name =”);**

**scanf(“%s”,name);**

**printf(“\n Enter your basic salary = “);**

**scanf(“%f”,&basic salary = “);**

**if(basics<5000)**

**{**

**Incre = 0.05;**

**}else if(basics>=5000)**

**{**

**Incre = 0.05;**

**}**

**Incre1=basics\*incre;**

**Newsal =basics+incre1;**

**printf(“\nYOUR NEW SALARY IS =%.2f”,newsal);**

**}**

**Question -04**

**#include<stdio.h>**

**Int main()**

**{**

**//Question 04//ok**

**Float radius;**

**printf(“\n\n ENTER THE RADIUS OF A CIRCLE=”);**

**scanf(“%f”&radius);**

**printf(“\ncircle diameter is = %.2f”,2\*radius);**

**printf(“\ncircle circumference is=%.2f”,283.14159**

**\*radius);**

**printf(“\ncircle area is = %.2f”,(radius\*radius)\***

**3.14159);**

**}**

**Question – 05**

**#include<stdio.h>**

**int main()**

**{**

**//Question – 05**

**int num1,num2;**

**printf(“Enter two numbers with space”);**

**scanf(“%d%d”,&num1,&num2);**

**printf(“%d%d\n”num1,nu m2);**

**if (num1%num2==0)**

**{**

**printf(“first number is not multiple of the second**

**Number\n”);**

**}**

**}**

**Question – 06**

**#iclude<stdio.h>**

**int main()**

**{**

**Char char1;**

**printf(“Enter a character or number”)**

**A,B,C,a,b,c,$,\*,+,/,0,1,2= “);**

**scanf(“%c”, &char1);**

**switch(char1) {**

**case ‘A’:**

**printf(“A is = %d”, ‘A’);**

**break;**

**case ‘B’:**

**printf(“B is =%d”, ‘B’);**

**break;**

**case ‘C’:**

**printf(“C is =%d”, ‘C’);**

**break;**

**case ‘a’:**

**printf(“a is =%d”, ‘a’);**

**break;**

**case ‘b’:**

**printf(“b is =%d”, ‘b’);**

**break;**

**case ‘c’:**

**printf(“c is =%d”, ‘c’);**

**break;**

**case ‘$’:**

**printf(“$ is =%d”, ‘$’);**

**break;**

**case ‘\*’:**

**printf(“\* is =%d”, ‘\*’);**

**break;**

**case ‘+’:**

**printf(“+ is =%d”, ‘+’);**

**break;**

**case ‘/’:**

**printf(“/ is =%d”, ‘/’);**

**break;**

**case ‘0’:**

**printf(“0 is =%d”, ‘0’);**

**break;**

**case ‘1’:**

**printf(“1 is =%d”, ‘1’);**

**break;**

**case ‘2’:**

**printf(“2 is =%d”, ‘2’);**

**break;**

**default:**

**printf(“invalid”);**

**}**

**return 0;**

**}**

**Question -07**

**#include<stdio.h>**

**int main()**

**{**

**int basicsala1,gross;**

**char city;**

**printf(“ENTER YOUR BASIC SALARY =”);**

**scanf(“%d”,&basicsala1);**

**printf(“ENTER YOUR AREA AS A CHRACTER =”);**

**scanf(“%c”,&city);**

**if(city == ‘c’);**

**}**

**printf(“Your city id colombo so additional allowance is**

**Rs.2500.00”);**

**Basicsala1 =basicsala1+ 2500;**

**}else**

**printf(“YOU ARE NOT GET ADDITIONAL ALLOWANCE”);**

**{**

**Bonusp =10/100;**

**}else if(basicsala1>=25000 &&basicsala1<=50000)**

**{**

**bonusp= 12.0/100.0;**

**}else if(basicsala1>=50000 )**

**{**

**bonusp =15.0/100.0;**

**}**

**gross=basicsala1+(bonusp \*basicsala1);**

**printf(“\nYOUR GROSS SALARY IS =%.2f”,(float)gross);**

**}**

**PRACTICAL -04**

**Question -01**

**#include<stdio.h>**

**int main()**

**{**

**Int x,y;**

**printf(“Enter Two Number=”);**

rc**scanf(“%d”,&y);**

**if(x%2==0);**

**{**

**printf(“first odd number”);**

**}else{**

**printf(“first even number”);**

**}**

**If(y%2==0)**

**{**

**printf(“second odd”);**

**}else{**

**printf(“second even”);**

**}**

**}**

**Question -02**

**#include<stdio.h>**

**int main()**

**{**

**printf(“MINI CALCULATOR”);**

**printf(“\n\n\n\n\n”);**

**char ca;**

**scanf(“%c”,&ca);**

**int x,y;**

**printf(“Enter Two Numbers With Space=”);**

**scanf(“%d%d”,&x,&y);**

**switch(ca)**

**{**

**Case ‘+’:**

**printf(“Answer=%d”,x+y);**

**break;**

**case ‘- ‘:**

**printf(“Answer=%d”,x-y);**

**break;**

**case ‘/’:**

**printf(“Answer =%d”,x/y);**

**break;**

**case ‘\*’;**

**printf(“Answer =%d”x\*y);**

**break;**

**default:**

**break;**

**}**

**}**

**Question -03**

**#include<stdio.h>**

**int main()**

**{**

**int radius;**

**printf(“Enter The Reduce =”);**

**scanf(“%d”,&radius);**

**printf(“\tselect on of this \n\n\n01.ciumference\n02.are**

**a\n03.volum\n”);**

**int e;**

**printf(“enter=”);**

**scanf(“%d”,&e);**

**switch(e)**

**{**

**case 1:**

**printf(“answer=%f”,2\*3.14\*radius); break;**

**case 2:**

**printf(“answer=%f”,1.33\*3,14\*radius);break;**

**case 3:**

**printf(“answer=%f”,1.33\*3.14\*radius);break;**

**default:**

**break;**

**}**

**}**

**Question -04**

**#include<stdio.h>**

**int main()**

**{**

**char charr;**

**printf(“Enter The Character pl =”);**

**scanf(“%c”,&charr)**

**switch(charr);**

**{**

**case ‘a’:**

**printf(“Vowel”);break;**

**case ‘e’:**

**printf(“Vowel”);break;**

**case ‘I’:**

**printf(“Vowel”);break;**

**case ‘o’:**

**printf(“Vowel”);break;**

**case ‘u’:**

**printf(“Vowel”);break;**

**default:**

**printf(“Not Vowel”);**

**break;**

**}**

**}**

**Question -05**

**#include<stdio.h>**

**int main()**

**{**

**int month;**

**printf(“Enter The Month Number :”);**

**scanf(“%d”,&month);**

**switch(month) {**

**case 1:**

**printf(“January has 31 days.\n”);**

**break;**

**case 2:**

**printf(“February has 28 days.\n”);**

**break;**

**case 3:**

**printf(“March has 31 days.\n”)**

**break;**

**case 4:**

**printf(“April has 30 days.\n”);**

**break;**

**case 5:**

**printf(“May has 31 days.\n”);**

**break;**

**case 6:**

**printf(“June has 30 days.\n”);**

**break;**

**case 7:**

**printf(“July has 31 days.\n”);**

**break;**

**case 8:**

**printf(“August has 31 days.\n”);**

**break;**

**case 9:**

**printf(“September has 30 days.\n”);**

**break;**

**case 10:**

**printf(“October has 31 days.\n”);**

**break;**

**case 11:**

**printf(“November has 30 days.\n”);**

**break;**

**case 12:**

**printf(“December has 31 days.\n”);**

**break;**

**default:**

**printf(“Invalid Month Number.\n”);**

**break;**

**}**

**Return 0;**

**}**

**PRACTICAL -05**

**Question -01.1**

**#include<stdio.h>**

**int main()**

**{**

**int no;**

**no=1;**

**while(no<=100);**

**{**

**printf(“%d”,no);**

**no++;**

**}**

**}**

**Question – 01.3**

**#include<stdio.h>**

**int main()**

**{**

**int I;**

**i=1;**

**do**

**{**

**Printf(“%d”,i);**

**I++;**

**}while(i<=100);**

**}**

**Question -01.3**

**#include<sdtio.h>**

**int main()**

**{**

**int i;**

**for(i=1; i<=100; i++)**

**{**

**printf(“%d”,i);**

**}**

**}**

**Question -02**

**#include<stdio.h>**

**int main()**

**{**

**int I, marks[10];**

**int total=0;**

**float average;**

**for(i=0;i<10;i++)**

**{**

**printf(“Enter 10 Marks%d=”,i);**

**scanf(“%d”,&marks[i]);**

**total+=marks[i];**

**}**

**average=total/I;**

**printf(“Total is =%d/n”,total);**

**printf(“Average is =%.2f\n”,average);**

**if(average<50);**

**{**

**printf(“Fail”); /\*code\*/**

**}else**

**{**

**printf(“Pass”);**

**}**

**}**

**Question -03**

**#include<stdio>**

**int main()**

**{**

**int no,I,f=1;**

**printf(“Enter a number=”);**

**scanf(“%d”,&no);**

**for (i= 1; i<=no; i++)**

**{**

**F=f\*I;**

**}**

**printf(“Factorial= %d”,f);**

**}**

**Question -04**

**#include<stdio.h>**

**int main() {**

**int number,sum=0,digits;**

**printf(“Enter The Number=”);**

**scanf(“%d”,&number);**

**while(number!=0)**

**{**

**digits=number%10;**

**sum+=digits;**

**number/=10;**

**}**

**printf(“Sum Of Digitd=%d”,sum);**

**}**

**Question -05**

**#include<stdio.h>**

**int main()**

**{**

**int number, reverseno =0, digit;**

**printf(“Enter a number:”);**

**scanf(“%d”,&number);**

**do{**

**digt= number%10;**

**reverseno= reverseno\*10+**

**digit;**

**number /=10;**

**}while(number !=0);**

**Printf(“Reversed number :%d\n”,reverseno);**

**return 0**

**}**

**Question -06**

**#include<stdio.h>**

**int main()**

**{**

**int base,exponent,z,result=1;**

**printf(“Enter The Base =”);**

**scanf(“%d”,&base);**

**printf(“Enter The Exponent:”);**

**scanf(“%d”,&exponent);**

**z=0;**

**while(z<exponent)**

**{**

**result\*=base;**

**z\*\*;**

**}**

**Printf(“n th power of intiger =%d”,result);**

**}**

**Question -07**

**#include<stdio.h>**

**int main()**

**{**

**int n1=0,n2=1,nextterm,count=10;**

**printf(“Fibonacci Series:”);**

**for (int i =1; i<=count; ++i){**

**printf(“%d”,&n1);**

**nextTerm;**

**n1=n2;**

**n2=nextTerm;**

**}**

**}**

**Question -08**

**#include<stdio.h>**

**int main()**

**{**

**int no,digts= 0,temp,**

**remainder;**

**float re;**

**printf(“Enter The Number:”);**

**scanf(“%d”,&no);**

**temp=no;**

**while(no! = 0) {**

**digits++;**

**no=no/10;**

**}**

**no =temp;**

**while(no!=0){**

**remainder=no%10;**

**re=re+pow(remainder,digits);**

**no=no/10;**

**}**

**if(temp==re)**

**printf(“%d is an Armstrong number.\n”,temp);**

**else**

**printf(“%d is not Armstrong number.\n”,temp);**

**}**

**Question -9**

**#include<stdio.h>**

**int main()**

**{**

**char letter;**

**printf(“ACCII\n”);**

**for (“Letter = ‘A’;letter< ‘z’;letter++);**

**{**

**printf(“%c\tASCII: %d\n,letter,letter);**

**}**

**}**

**Question -10**

**#include<stdio.h>**

**int main()**

**{**

**int I = 1;**

**while (I <=5) {**

**printf(“\n”);**

**i++;**

**int j = 1;**

**while (j <= i)**

**{**

**printf(“\*”);**

**j++;**

**}**

**}**

**Question -11**

**#include<stdio.h>**

**int main()**

**{**

**int no,I,c=0;**

**printf(‘Enter The Number=”);**

**scanf(“%d”,&no);**

**for(i =1;i<=no;i++);**

**{**

**If(no%i==o);**

**{**

**C++;**

**}**

**}**

**if(c==2);**

**printf(“%d prime number”,no);**

**else**

**printf(“%d is not prime number”,no);**

**}**

**Question -12**

**#include<stdio.h>**

**int main()**

**{**

**int num’i;**

**printf(“Enter Positive Number =”);**

**scanf(“%d”,&num);**

**for(i=1;i<=num;i++){**

**if(num%i==0);**

**{**

**printf(“%d”,i);**

**}**

**}**

**}**

**Question -13**

**#include<stdio.h>**

**int main()**

**{**

**int i ,sum=0;**

**while(1)**

**{**

**printf(“Enter The Number=”);**

**scanf(“%d”,&i);**

**if(i==-1);**

**break;**

**sum=sum+i;**

**}**

**printf(“sum is=%d”,sum);**

**}**

**Question -14**

**#include<stdio.h>**

**int main()**

**{**

**Int array[10];**

**printf(“Enter 10 Integers:\n”);**

**for(int i =0;i<10;i++) {**

**scanf(“%d”,&array[i]);**

**}**

**printf(“\Array elements:\n”);**

**for (int i=0;i<10;i++) {**

**printf(“%d”,array[i]);**

**}**

**printf(“\n”);**

**}**

**Question -15**

**#include<stdio.h>**

**int main()**

**{**

**int array[10];**

**int evencount =0;**

**printf(“Enter 10 integers:\n);**

**for(int i=0;i<10;i++) {**

**scanf(“%d”,&array[i]);**

**}**

**for(int i=0;i<10;i++) {**

**if(array[i]%2==0) {**

**evencount++**

**}**

**}**

**printf(“\nNumber of even numbers in the**

**array:%d\n”,evencount);**

**}**

**SECTION B**

**01.**

**#include<stdio.h>**

**int main()**

**{**

**Int**

**number,positive=0,negative=0,zero=0;**

**printf(“Enter 10 numbers=\n”);**

**for(int i=0;i<10;i++);**

**{**

**Scanf(“%d”&number);**

**If(number>0);**

**{**

**Positive++;**

**}**

**Else if(number<0);**

**{**

**negative++;**

**}else**

**{**

**Zero++;**

**}**

**}**

**printf(“positive=%d\n”,positive);**

**printf(“negative=%d\n”,negative);**

**printf(“zero=%d\n”,zero);**

**}**

**02.**

**#include<stdio.h>**

**int main()**

**{**

**int num[10],sum=0;**

**int I;**

**float avg;**

**int max,min;**

**printf(“Enter 10 marks=\n”);**

**for(i=0;i<10;i++);**

**{**

**scanf(“%d”,&num[i]);**

**sum+=num[i];**

**if(i=0)**

**{**

**Max=num[i];**

**}else if(num[i]<min);**

**{**

**min=num[i];**

**}**

**}**

**avg=sum/10;**

**printf(“Maximum marks:%d\n”,max);**

**printf(“Minimum marks:%d\n”,min);**

**printf(“Average marks:%.2f\n”,avg);**

**}**

**03.**

**#include<stdio.h>**

**int main()**

**{**

**Int i ,countgr=0;**

**float price[10],total,avg;**

**for(i=0;i<10;i++)**

**{**

**printf(“Enter The Price Of Iterm=”);**

**scanf(“%f”,&price[i]);**

**total+=price[i];**

**if(price[i]>200){**

**countgr++;**

**}**

**}**

**avg=total/10;**

**printf(“\nAvarage value of an item:%.2f\n”,avg);**

**printf(“Number Of Items With Price Greater**

**Than 200:%d\n”,countgr);**

**}**

**04.**

**#include<stdio.h>**

**int main()**

**{**

**int empno;**

**float basc;**

**int count=0;**

**printf(“Enter The Employee Number=\n”);**

**scanf(“%d”,&empno);**

**while(empno!=-999)**

**{**

**printf(“Enter The Basic Salary=”);**

**scanf(“%d”,&basc);**

**if(basc>=5000);**

**{**

**Count++;**

**}**

**printf(“Enter The Employee Number=\n”);**

**scanf(“%d”,&empno);**

**if(basc>5000);**

**{**

**Count++;**

**}**

**printf(“Enter The Employee Numbers =\n);**

**scanf(“%d”,&empno);**

**}**

**printf(“\nNumber Of Employee With Basic Salary>**

**=5000:%d\n”,count);**

**}**

**05.**

**#include<stdio.h>**

**int main()**

**{**

**int empno;**

**float hrwork;**

**float overrat=150;**

**float overrrrr=200;**

**int count=0;**

**int countexceed=0;**

**printf(“Enter The Hours Worked=”);**

**scanf(“%d”,&hrwork);**

**float overtime=0;**

**if(hrwork>40);**

**{**

**Float exceesshr=hrwork-40;**

**Overtime(40\*overrrrr\*)+(overrrrr\*exceesshr);**

**}else**

**{**

**Overtime=hrwork\*overrat;**

**}**

**printf(“Enter The Emp no=”);**

**scanf(“%d”,&empno);**

**if(overtime>4000);**

**{**

**countexceed++;**

**}**

**countexceed++;**

**}**

**count++;**

**printf(“Enter The Employee No(-999 to**

**exit):”);**

**scanf(“d”,&empno);**

**}**

**float percentageExceeding4000=(countexceed/count)\*100;**

**printf(“\nPercentage Of Employee With Overtime Payment**

**Exceeding Rs.4000:%.2f%%\n”,**

**PercentageExceeding4000);**

**}**