Assignment 3

1. Write a program to check whether a given number is positive or non-positive.

**#include<stdio.h>**

**int main()**

**{**

**int num;**

**printf(“Enter any number\n”) ;**

**scanf(“%d”, &num);**

**if(num<=0)**

**printf(“number is non-positive”) ;**

**else**

**printf(“number is positive”) ;**

**return 0 ;**

**}**

1. Write a program to check whether a given number is divisible by 5 or not

**#include<stdio.h>**

**int main()**

**{**

**int num;**

**printf(“Enter a number\n”) ;**

**scanf(“%d”, & num) ;**

**if(num%5==0)**

**printf(“number is divisible by 5”);**

**else**

**printf(“number is not divisible by 5”);**

**return 0 ;**

**}**

1. Write a program to check whether a given number is an even number or an odd

Number.

**#include<stdio.h >**

**int main()**

**{**

**int num;**

**printf(“Enter a number\n”) ;**

**scanf(“%d”, & num) ;**

**if(num%2==0)**

**printf(“even nunber”) ;**

**else**

**printf(“odd number”) ;**

**return 0;**

**}**

4. Write a program to print greater between two numbers. Print one number of both are The same.

**#include<stdio.h >**

**int main()**

**{**

**int a, b, big;**

**printf(“Enter two nunbers\n”) ;**

**scanf(“%d%d”, & a, & b) ;**

**if(a<=b)**

**big=b;**

**if(a>=b)**

**big=a;**

**printf(“greater number is %d”, big) ;**

**return 0;**

**}**

5. Write a program to check whether a given year is a leap year or not

**#include<stdio.h >**

**int main()**

**{**

**int year;**

**printf(“Enter year\n”) ;**

**scanf(“%d”, & year) ;**

**if(year%4==0)**

**printf(“leap year”) ;**

**else**

**printf(“Not a leap year”) ;**

**return 0 ;**

**}**

6. Write a program to find the greatest among three given numbers. Print number once

If the greatest number appears two or three times.

**#include<stdio.h >**

**int main()**

**{**

**int x, y, z;**

**printf(“Enter three numbers\n”) ;**

**scanf(“%d%d%d”, & x, & y, & z) ;**

**if(x>=y)**

**if(x>=z)**

**printf(“%d is greater”, x) ;**

**else**

**printf(“%d is greater”, z) ;**

**else**

**if(y>=z)**

**printf(%d is greater”, y) ;**

**else**

**printf(“%d is greater”, z) ;**

**return 0 ;**

**}**

7. Write a program which takes the cost price and selling price of a product from the

User. Now calculate and print profit or loss percentage.

**#include<stdio.h >**

**int main()**

**{**

**int cp, sp, profit, loss, profitp, lossp;**

**printf(“Enter cost price and selling price \n”) ;**

**scanf(“%d%d”, & cp, & sp) ;**

**if(sp>cp)**

**{**

**profit=sp-cp;**

**profitp = (profit/cp) \*100;**

**printf(“Profit gained by %d percent”, profit) ;**

**}**

**if(cp>sp)**

**{**

**loss=cp-sp;**

**lossp=(loss/cp) \* 100;**

**printf(“loss by %d percent”, lossp) ;**

**}**

**return 0 ;**

**}**

8. Write a program to take marks of 5 subjects from the user. Assume marks are given

Out of 100 and passing marks is 33. Now display whether the candidate passed the

Examination or failed.

**#include<stdio.h>**

**int main()**

**{**

**int a, b, c, d, e, sum;**

**printf(“Enter marks of 5 subjects\n”) ;**

**scanf(“%d%d%d%d%d”, & a, & b, & c, & d, & e) ;**

**sum=a+b+c+d+e;**

**if(sum>=33)**

**printf(“Student is pass”) ;**

**else**

**printf(“student is fail”) ;**

**return 0;**

**}**

9. Write a program to check whether a given alphabet is in uppercase or lowercase.

**#include<stdio.h>**

**int main()**

**{**

**char ch;**

**printf(“Enter any alphabet\n”) ;**

**scanf(“%c”, & ch) ;**

**if(ch>=’A’&& ch<=’Z’)**

**printf(“uppercase alphabet”) ;**

**if(ch>=’a’&&ch<=’z’)**

**printf(“lowercase alphabet “) ;**

**return 0 ;**

**}**

10. Write a program to check whether a given number is divisible by 3 and divisible by 2.

**#include<stdio.h>**

**int main()**

**{**

**int num;**

**printf(“Enter a nunber\n”) ;**

**scanf(“%d”, & num) ;**

**if(num%2==0)**

**if(num%3==0)**

**printf(“number is divisible by 2 and 3”);**

**else**

**printf(“number is divisible by 2 but not 3”);**

**else**

**if(num%3==0)**

**printf(“number is divisible by 3 but not 2”);**

**else**

**printf(“number is neither divisible by 3 nor divisible by 2”);**

**return 0 ;**

**}**

11. Write a program to check whether a given number is positive, negative or zero**.**

**#include<stdio.h>**

**int main()**

**{**

**int num;**

**printf(“Enter any number\n”) ;**

**scanf(“%d”, & num) ;**

**if(num<0)**

**printf(“Negative number”) ;**

**else if(num==0)**

**printf(“zero”) ;**

**else**

**printf(“Positive number”) ;**

**return 0;**

**}**

12. Write a program to check whether a given character is an alphabet (uppercase), an

Alphabet (lower case), a digit or a special character.

**#include<stdio.h>**

**int main()**

**{**

**char ch;**

**printf(“Enter any character\n”) ;**

**scanf(“%c”, & ch) ;**

**if(ch>=’A’&&ch<=’Z’)**

**printf(“Upper case letter”) ;**

**else if(ch>=’a’&&ch<=’z’)**

**printf(“Lower case letter”) ;**

**else if(ch>=’0’&&ch<=’9’)**

**printf(“Number”) ;**

**else**

**printf(“special character”) ;**

**return 0 ;**

**}**

13. Write a program which takes the month number as an input and display number of

Days in that month

**#include<stdio.h>**

**int main()**

**{**

**int month;**

**printf(“Enter month number \n”) ;**

**scanf(“%d”, & month);**

**if(month==4 || month==6 || month==11 || month==9)**

**printf(“30 days in input month”) ;**

**else if(month ==2)**

**printf(“ 28 days in the month but if leap year then 29 days”) ;**

**else**

**printf(“31 days in input month”) ;**

**return 0 ;**

**}**