**PF ASSIGNMENT#1**

1. **Write a C program to find maximum between two numbers:**

#include <stdio.h>

int max\_of\_two(int a, int b)

{

if(a>b)

{

return a;

}

else

{

return b;

}

}

int main()

{

int a, b ;

printf("Enter 1st number");

scanf("%d",&a);

printf("Enter 2nd number \n");

scanf("%d",&b);

int ans =max\_of\_two(a, b);

printf("The maximum of a and b is %d", ans);

return 0;

}

1. **Write a C program to check whether a number is negative, positive or zero ?**

#include <stdio.h>

int main()

{

int a ;

printf("Enter a Number \n");

scanf("%d",&a);

if(a==0)

{

printf("The number you entered is zero \n");

}

else if(a>0)

{

printf("The number is positive \n");

}

else if(a<0)

{

printf("The number is negative");

}

return 0;

}

3**. Write a C program to check whether a number is divisible by 5 and 11 or not.**

#include <stdio.h>

int main()

{

int a ;

printf("Enter a Number \n");

scanf("%d",&a);

if(a%5==0)

{

printf("The number you enetred is divisible by 5");

}

else if(a%11==0)

{

printf("The number you enetred is divisible by 11");

}

else

printf("The number you entered is not divisible by 5 & 11");

return 0;

}

**4. Write a C program to check whether a number is even or odd.**

#include <stdio.h>

int main()

{

int a ;

printf("Enter a Number \n");

scanf("%d",&a);

if(a%2==0)

{

printf("The number you enetred is even ");

}

else

printf("The number you entered is odd");

return 0;

}

5. **Write a C program to input marks of five subjects Physics, Chemistry, Biology,**

**Mathematics and Computer. Calculate percentage and grade according to following:**

**Percentage >= 90% : Grade A**

**Percentage >= 80% : Grade B**

**Percentage >= 70% : Grade C**

**Percentage >= 60% : Grade D**

**Percentage >= 40% : Grade E**

**Percentage < 40% : Grade F**

#include<stdio.h>

int main()

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

float percentage;

printf("Enter marks of Physics");

scanf("%d",&a);

printf("Enter marks of Chemistry");

scanf("%d",&b);

printf("Enter marks of Computer");

scanf("%d",&c);

printf("Enter marks of Biology");

scanf("%d",&d);

printf("Enter marks of Mathmatics");

scanf("%d",&e);

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

percentage= sum/5.0 ;

printf("your percentage is %.2f \n",percentage);

if(percentage>=90)

{

printf("Your grade is A");

}

else if(percentage>=80) {

printf("Your grade is B");

}

else if(percentage>=70)

{

printf("Your grade is C");

}

else if(percentage>=60)

{

printf("Your grade is D");

}

else if (percentage>=40)

{

printf("Your grade is E");

}

else

printf("Your grade if F");

return 0;

}

**6. Write a C program to input electricity unit charges and calculate total electricity bill**

**according to the given condition:**

**For first 50 units Rs. 0.50/unit**

**For next 100 units Rs. 0.75/unit**

**For next 100 units Rs. 1.20/unit**

**For unit above 250 Rs. 1.50/unit**

**An additional surcharge of 20% is added to the bill**

#include<stdio.h>

int main()

{

int unit;

float amount, total\_amount , sur\_charge ;

printf("Enter total Unit consumed ");

scanf("%d",&unit);

if(unit<=50)

{

amount=unit\*0.50 ;

}

else if(unit<=150)

amount= amount + ((unit-50)\*0.75);

else if(unit<=250)

amount= amount + ((unit-150)\*1.20);

else

amount=amount + ((unit-250)\*1.50);

sur\_charge=amount\*0.20 ;

total\_amount=amount+sur\_charge ;

printf("Total cost of electercity is %.2f",total\_amount);

return 0 ;

}