# **PRACTICAL 03**

01)

#include <stdio.h>

#include <stdlib.h>

int main()

{

int x,y,max;

printf("Enter two numbers");

scanf("%d %d",&x,&y);

if(x>y)

max=x;

else

max=y;

printf("The highest number is %d\n",max);

}

02)

#include <stdio.h>

#include <stdlib.h>

int main()

{

int x,y,z,min,max;

printf("Enter three numbers");

scanf("%d %d %d",&x,&y,&z);

max=x;

if(y>max)

max=y;

if(z>max)

max=z;

printf("The highest number is %d\n",max);

min=x;

if(y<min)

min=y;

if(z<min)

min=z;

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

}

03)

#include <stdio.h>

#include <stdlib.h>

int main()

{

char empname[20];

float bs,inc,ns;

printf("Enter Employee Name");

scanf("%s",&empname);

printf("Enter Basic Salary");

scanf("%f",&bs);

if(bs>=10000)

inc=bs\*0.15;

else

if(bs>=5000)

inc=bs\*0.10;

else

inc=bs\*0.05;

ns=bs+inc;

printf("Employee Name %s\n",empname);

printf("New Salary %.2f\n",ns);

}

04)

#include <stdio.h>

#include <stdlib.h>

int main()

{

float r,d,cir,area,x;

printf("Enter circle radius \n");

scanf("%f",&r);

x=3.14159;

if (d=r\*2)

printf("Diameter of the circle: %.2f \n",d);

if (area=x\*r\*r)

printf("Area of the circle: %.2f \n",area);

if (cir=x\*d)

printf("Circumference of the circle: %.2f \n",cir);

return 0;

}

05)

#include <stdio.h>

#include <stdlib.h>

int main()

{

int x,y;

printf("Enter two numbers\n");

scanf("%d %d",&x,&y);

if(x%y==0)

printf("First number is a multiple of second number");

else

printf("First number is not a multiple of second number");

return 0;

}

06)

#include <stdio.h>

#include <stdlib.h>

int main()

{

char character;

printf("Enter a character: ");

scanf("%c",&character);

printf("Integer equivalent: ");

if(character >= 'A' && character <= 'C')

{

printf("%d\n",character);

}

else if(character >='a' && character <= 'c')

{

printf("%d\n",character);

}

else if(character >= '0' && character <= '2')

{

printf("%d\n",character);

}

else if(character == '$' || character == '\*' || character == '+' || character == '/')

{

printf("%d\n",character);

}

else if(character == ' ')

{

printf("%d\n",character);

}

else

{

printf("Character not recognized.");

}

return 0;

}

07)

#include <stdio.h>

#include <stdlib.h>

int main()

{

char name[50],city;

int w\_years;

float sales,bonus,percentage,n\_wage;

printf("Enter Employee name, city, years worked and sales respectively \n");

scanf("%s %c %d %f",&name,&city,&w\_years,&sales);

if (sales >= 50000)

{

percentage = 15.00;

}

else if (sales >=25000)

{

percentage = 12.00;

}

else

{

percentage = 10.00;

}

if (w\_years>=5)

{

percentage = percentage + 10.00;

}

bonus = (sales)\*(percentage/100.00);

printf("Bonus without city bonus %f\n",bonus);

if (city=='c')

{

bonus = bonus + 2500.00;

}

n\_wage = sales + bonus;

printf("Bonus with city bonus %f\n",bonus);

printf("Your monthly bonus allowance is %.2f \n",n\_wage );

return 0;

}