**Tutorial 3**

**Sachintha hasaranga**

**it21194962**

**Group 1.2**

**Exercise 1**

#include<stdio.h>

int main(void){

float r,d,s,a; //r=radius , d=diameter ,s=circumference, a=area

printf("Enter radius:- ");

scanf("%f",&r);

d=2\*r;

s=2.0\*22/7\*r;

a=22.0/7\*r\*r;

printf("\n\ndiameter = %.2f \ncircumference = %.2f \narea = %.2f",d,s,a);

return 0;

}

**Exercise 2**

#include<stdio.h>

int main(void){

int nu,a,b,c,d,e;

printf("enter your number:- ");

scanf("%d",&nu);

if (9999<nu<=99999){

a=nu/10000;

b=nu/1000%10;

c=nu/100%10;

d=nu/10%10;

e=nu%10;

}

printf("\n\n%d\t%d\t%d\t%d\t%d",a,b,c,d,e);

return 0;

}

Exercise 3

1. 1
2. 0
3. 1
4. 0
5. 0
6. 1

**Exercise 4**

**Start**

i.

**Average=0**

**Input mark1 , mark2**

**If**

**Average>45**

Yes

no

**print ‘’Pass’’**

**Stop**

**print ‘’fail’’**

**Average=(mark1 + mark2)/2**

ii.

**Start**

Yes

**print “SeniorFemale”**

**print ‘’SeniorMale”**

**If**

**Age>=65**

**If**

**Gender == Male**

**Input Gender, Age**

**print “Not a Senior citizen”**

**Stop**

No

No

Yes

iii.

**Stop**

**print ‘’F’’**

No

No

No

Yes

**print ‘’B’’**

Yes

**Input marks**

**print ‘’A’’**

**print ‘’C’’**

Yes

**If**

**100>=marks>=80**

**If**

**69>=marks>=45**

**If**

**79>=marks>=70**

**Start**