**EEE60104 Programming Techniques**

**Test Revision Solutions**

**Question 1**

#include <stdio.h>

int main()

{

int input;

printf("Enter an integer: ");

scanf("%d",&input);

if(input>0)

{

printf("Positive Value");

}

if (input<0)

{

printf("Negative Value");

}

if (input==0)

{

printf("Zero");

}

return 0;

}

**Question 2**

#include <stdio.h>

int main()

{

int day;

printf("Enter the day number:");

scanf("%d",&day);

switch(day)

{

case 1:

printf("Monday");

break;

case 2:

printf("Tuesday");

break;

case 3:

printf("Wednesday");

break;

case 4:

printf("Thursday");

break;

case 5:

printf("Friday");

break;

case 6:

printf("Saturday");

break;

case 7:

printf("Sunday");

break;

default:

printf("Invalid value");

}

return 0;

}

**Question 3**

(i)

#include <stdio.h>

int main()

{

int x,sum=0,count;

printf("Enter a value:");

scanf("%d",&x);

for(count=1;count<=x;count++)

{

sum=sum+count;

}

printf("The sum is %d",sum);

return 0;

}

(ii)

#include <stdio.h>

int main()

{

int x,sum=0,count=1;

printf("Enter a value:");

scanf("%d",&x);

while(count<=x)

{

sum += count;

count++;

}

printf("The sum is %d",sum);

return 0;

}

**Question 4**

#include <stdio.h>

int main()

{

int x,total=0;

for(x=7;x<=100;x=x+7)

{

total=total+x;

}

printf("The sum is %d",total);

return 0;

}

OR

#include <stdio.h>

int main()

{

int x,rem,total=0;

for(x=1;x<=100;x++)

{

rem=x%7;

if(rem==0)

{

total=total+x;

}

}

printf("The sum is %d",total);

return 0;

}

**Question 5**

#include <stdio.h>

int Count(int A);

int main()

{

int x,total;

printf("Enter an integer:");

scanf("%d",&x);

total=Count(x);

printf("The total value is %d",total);

return 0;

}

int Count(int A)

{

int rem,sum=0;

while(A!=0)

{

rem=A%10;

sum=sum+rem;

A=A/10;

}

return sum;

}

**Question 6**

#include <stdio.h>

int main()

{

int x[]={23,12,23,54,23,75,5,45,32,76,34,87};

int lowest,position,n;

lowest=x[0];

position=0;

for(n=1;n<12;n++)

{

if(x[n]<lowest)

{

lowest=x[n];

position=n;

}

}

//print original array

for(n=0;n<12;n++)

{

printf("%d ",x[n]);

}

printf("\n");

//create new array

x[position] = x[0];

x[0] = lowest;

//print new array

for(n=0;n<12;n++)

{

printf("%d ",x[n]);

}

return 0;

}